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MAY 17, 1924.

Vol. C.

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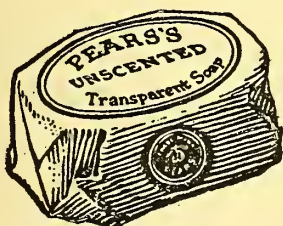
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GLASGOW.

Brown, Gray & Co., Ltd.
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HULL.

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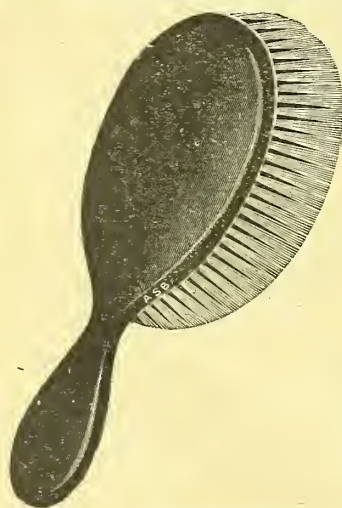
Ayrton, Saunders & Co., Ltd.

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Harper, C. W.
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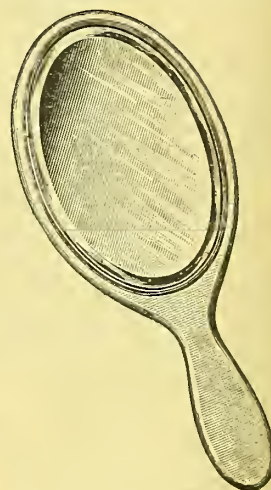
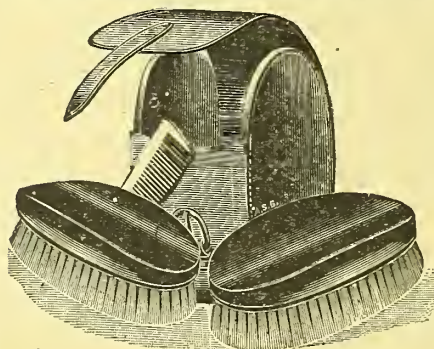
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Hall Forster & Co. Ltd.



GREAT VARIETY

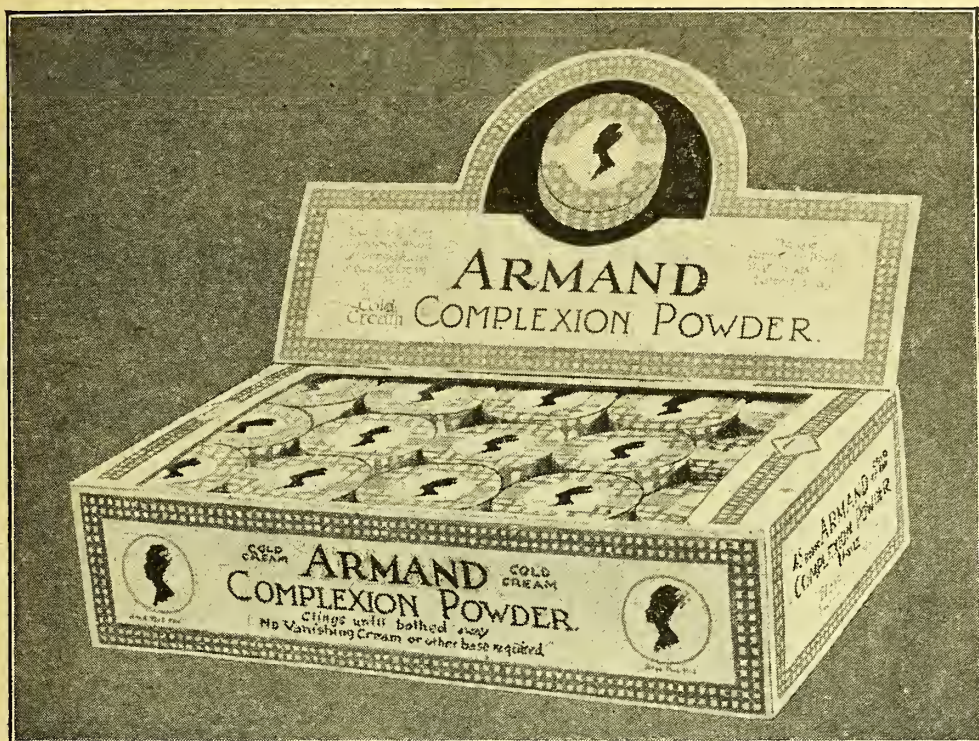
REAL AND IMITATION
Tortoiseshell, Ebony and Ivory
TOILET GOODS



ALWAYS IN STOCK.

EVERYTHING FOR YOUR FANCY GOODS DEPARTMENT
SEND TRADE CARD FOR ILLUSTRATED CATALOGUE

ADOLPH SCOTT, Ltd. —24, 25 & 26— **BIRMINGHAM**
Gt. Hampton St.



ARMAND

COLD CREAM

COMPLEXION POWDER

IS THE IDEAL POWDER FOR THE FAIR
GOLFER, TENNIS PLAYER and DANCER—
for it CLINGS AS NO OTHER POWDER CAN.

The ARMAND PROFIT of nearly 100% on cost is an incentive worthy of interest—ARMAND direct ADVERTISING a source of certain sales.

A DISPLAY BOX of TRIAL SIZE packages (1/- size making nearly 6d. profit) will make new ARMAND buyers for the larger boxes.

FLORIAN & ARMAND, LTD.

Queensway,

Ponders End,

MIDDLESEX.

Telephone No.: Enfield 783.

We pack
Shampoo
Powders
in a
large
variety
of
styles

Full
particulars
of these
and all
other Toilet
Prepara-
tions
will be
found in
our New
Price List

TOOGOOD'S SHAMPOO POWDERS



IN OVAL GELATINE CAPSULES

*Camomile, Camomile and Henna,
Cocoanut Oil, Egyptian Henna, Pine,
Henna and Pine and Dry Shampoo
in box of one dozen.*

24/- per doz. boxes

WILLIAM TOOGOOD LTD
77 SOUTHWARK ST LONDON SE1

They please the eye and satisfy

AYRTON'S PACKED GOODS

are the accepted of the Trade because they combine excellence of presentation and a high standard of quality. The first ensures the sale; the second makes the repeat purchase a certainty.



GILBERT'S FOOT POWDER.—In tall round sprinkler top decorated tins, half-dozen in display outer per dozen 5 6

GILBERT'S FOOT POWDER.—In designed envelopes, packed two dozen on a card per dozen 1/2, per gross 12 0

UNIQUE SHOWCARD, AS ILLUSTRATED, INCLUDED WITH ALL ORDERS.

GILBERT'S MENTHOLATED FOOT AND BATH SALTS.—
Delightfully perfumed, immediately soluble, and possessing the virtues found in the World's best Spas per dozen 8 0

FOOT BATH TABLETS.—30
in strikingly attractive tins,
per dozen 3/9 ... per gross 42 0

SPECIAL PACKINGS FOR EXPORT.
PRICES ON APPLICATION.

SPECIAL Carriage Paid SAMPLE OFFER

If this advertisement is mentioned, we will send two dozen of each and two cards of Gilbert's Foot Powder in envelopes for

£1 16 10

carriage paid.

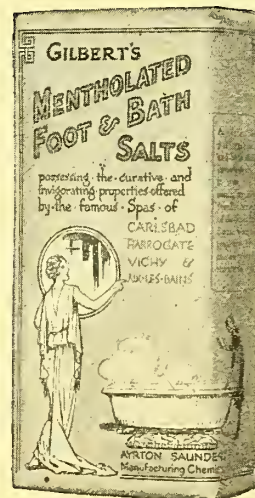
AYRTON, SAUNDERS & CO., LTD.

Manufacturing Chemists and Wholesale and
Export Druggists,

32, 34, & 36 HANOVER STREET
30, 32, 34, 36, 38 & 40 DUKE STREET

LIVERPOOL

Telegrams: "Sundries, Liverpool."
Telephone: Royal 4361 (10 lines) 40 Extensions.



JOHN W. ROYLE, LTD.

DIRECT IMPORTERS OF ALL
NATURAL MINERAL WATERS

Sole Importers and Agents
for

VICHY AGRÉABLE

VITTEL GRANDS DUCS

BIRMO. - Swiss Natural
Aperient Water



All Orders executed Carriage
Paid to any part of
the United Kingdom within
24 HOURS.

Telephone :
1036 MUSEUM

67 CHARLOTTE STREET, LONDON, W.1

Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

Grade A. STRENGTH 16.5°—17° Abs. Alc.

Grade B. „ 18°—19° Abs. Alc.

James V. Oldham

19 St. Dunstan's Hill, London, E.C.3.

Telephone : Avenue 3013.



Kellogg's

Krumbled Bran is a health
necessity and should be
eaten daily. It naturally
and permanently relieves
constipation.

Prices and samples from.—

S. D. SIMOND & CO., LTD.,
10 MONUMENT ST., LONDON, E.C.3, ENGLAND.

Reduction of Prices

**Important Note
to Chemists
without Licenses**

It has been estab-
lished by law that
Registered Chemists
may sell Wincarnis
with Quinine with-
out a License

WINGARNIS

**Sells readily ALL
the time.**

COLEMAN & CO., Ltd., Wincarnis Works, Norwich.

**New Prices to
the Public :**

Large Size **5/-**

Small Size **3/-**



*"A very impressive
two-shillingsworth."*

The bottle is shown a little less than full size. The carton (being further away from the camera) is considerably less. The actual height of the carton is 5½ inches.

The New 2/- Pack

of "Mineral Spring" is now ready, the "waiting list" has been cleared, and orders for both sizes are being executed promptly.

Trade Prices, which show 33% to 40% on sale price, on application.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797

A/300



The only Baby Food whose claim is backed by rigid scientific proof

Humanised Trufood is made at the Creameries, Wrenbury, from the purest milk that comes from the rich pastures of the famous Cheshire dairy country. It contains soluble lactalbumen in the same colloidal condition and in the same quantity as in breast milk. It is standardised as regards its fat content, and the casein present corresponds to human milk and not to cows' milk. In short it is analogous in composition to breast milk, as the following analysis clearly shows :—

	<i>Breast Milk</i>	<i>Cows' Milk</i>	<i>Humanised Trufood</i>
Lactose	6.5	4.7	6.3
Fat	3.3	3.5	3.3
Casein	0.9	3.0	0.8
Lactalbumen	0.4	0.3	0.6
Salts	0.2	0.8	0.6
Water	88.7	87.7	88.4
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

*If you are not yet
stocking TRUFOOD,
please ask for sample
and special trade offer*

This result has been achieved by removing a part of the casein of full-cream Cheshire milk, so that, after the addition of suitable quantities of pure fresh cream and lactose, a milk powder of the above composition results.

*No other Infants' Food on the market is justified in
claiming this close analogy to human milk*

You are certain to be asked for Trufood, and should order at least a minimum supply to meet enquiries.



TRUFOOD

TRUFOOD LIMITED, The Creameries, Wrenbury, nr. Nantwich, Cheshire

Baby's birthright— Clean Milk

MILKAL

"Milkal" is produced by a new and exclusive English process by means of which the imperfections of previously known dried milks have been definitely overcome, and the following important advantages achieved:—

1. The fat is retained in its original globular form.
2. Practically none of the albumen is coagulated.
3. 100% soluble in cold water to give a milk practically indistinguishable from raw cow's milk.
4. In most dried milks when mixed with hot water, the fat separates out—and usually appears in a yellow oily mass on the surface; but not so with "Milkal"

The qualities of Milkal are such that every tin sold is a recommendation not only for Milkal itself, but the shop that sells it.

GT. YARMOUTH.

"I have given Milkal a very good trial in every form and find it THE MOST PERFECT FORM OF DRIED MILK one could wish for."

Nurse (Ref. 151).

SOUTHAMPTON.

"I shall always advise my patients to use Milkal—as it is FAR SUPERIOR TO ANY OTHER MILK I have tried."

Nurse (Ref. 153).

OXFORD

"The best preparation of dried milk I have used I shall HIGHLY RECOMMEND MILKAL."

Nurse (Ref. 154).

BERKS.

"AN EXCELLENT DRIED MILK. I shall certainly not hesitate to recommend Milkal for infants requiring artificial feeding and also for expectant and nursing mothers"

Nurse (Ref. 152).

The above — are — extracts from recent letters received from members of the nursing profession.

Write for Trade Terms to the Sole Distributors:

MILKAL LTD

31, ST. PETERSBURGH PLACE, BAYSWATER, LONDON, W.2.

Produced & packed in Devon (England) by MILKAL, Ltd., London & Devonshire.

NESTLÉ'S MILO FOOD

is being largely advertised in the National Home Papers read by millions throughout the country.

With Fifty Years' Reputation

behind it, the regular demand of half-a-century for this renowned Infants' and Invalids' food is bound to increase with this publicity.

Trade prices from all Wholesale Chemists or

NESTLÉ'S

6-8, Eastcheap, London, E.C.3

NEW STOCK FOR OLD



THE GREAT NERVE FOOD AND FLESH BUILDER

EVERY chemist holding stocks of IRVONA of the obsolete 3/- and 15/- sizes should return them to us, when they will be immediately exchanged for the NEW SIZES at equivalent value.

NOTE REVISED PRICES

1/3 size IRVONA	Trade Price	12/- per doz.
5/- "	" "	48/- "
12/- "	" "	115/- "

Another line rapidly growing in popularity:—

"IRVOLAX" (the safe aperient).

1/3 size	12/- per doz.
3/- " (four times the quantity)	27/- "

Obtainable through the usual wholesale houses, or direct if cash sent with order.

P. J. WILLIAMS
27 Finsbury Street. LONDON, E.C.2

ENERGEN DIABETIC BREAD.

NOTICE TO RETAIL CHEMISTS.

All chemists have heard of ENERGEN BREAD in connection with the dietetic treatment of Diabetes, Obesity, Indigestion, etc., but those who have not handled this profitable line may not be aware that it is specially prepared and put up for the retail trade, and that owing to the special process of starch-reduction it will keep unchanged in flavour and consistency for an indefinite period.

If chemists who receive enquiries for Energen Bread will wire us, we will send a box post free by return, with special printed matter for the patient's doctor, list of wholesalers stocking Energen Products, catalogue, etc.

We trust that this increased facility for placing initial orders may lead to an extension of our business with retail chemists.

THERAPEUTIC FOODS CO.
ENERGEN WORKS (Dept. C.D. 7), Bridge Rd., Willesden, N.W.10

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

We issue a list of WHOLESALER HOUSES who keep above in stock, if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays, Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.



Pure rich milk made doubly nourishing

doubly delicious, and supremely digestible, by the addition of malted barley and wheat in perfect proportions. Such is Hooker's.

Comparatively, Hooker's gives more nutritive value in relation to price than *any other food*. Because it both pleases the palate and is a valuable aid to health, Hooker's will repay any efforts you put into selling it.

You want satisfied customers who will come back again and again. Hooker's will help you to win them. Your commendation and its merits together will produce the happiest results.

HOOKER'S

Malted Milk

For prices and terms write to
Thew, HOOKER & Gilbey, Ltd.
BUCKINGHAM

GO



CONCENTRATED LEMONADE

(No Sugar required)

SPECIAL BONUS WINDOW SHOW TERMS

No. 1 Parcel

9 doz. 2d.	...	...	£0 12 0
6 doz. 3½d.	...	...	0 14 0
2 doz. 6½d.	...	...	0 8 6
			£1 14 6

3×1/- tins. Free in payment for display.

No. 2 Parcel

6 doz. 2d.	...	...	£0 8 0
12 doz. 3½d.	...	...	1 8 0
4 doz. 6½d.	...	...	0 17 0
1 doz. 1/-	...	...	0 8 0
			£3 1 0

1 doz. 6½d. Free in payment for display.

No. 3 Bonus Parcel

£6 Value with a Bonus of 30×6½d. Free.
(Less 2½% for C.W.O.)

Show Cards, Window-Slips and Paper
Lemons supplied.

Your Profit upwards of 40% on turnover.

Above parcels carriage paid direct
or through your Patent House.

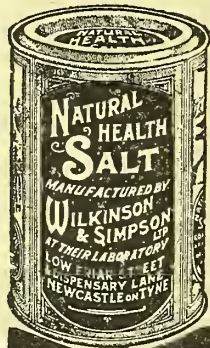
THE
GREENWICH LEMONADE CO.
(J. MILNER, M.P.S.)
11 JOHN PENN STREET,
LONDON, S.E.13.



NATURAL HEALTH SALT

The Original Health Salt of the World.

Summer-time sales are always high when Natural Health Salt is included in your displays. It is in great demand everywhere as a health-giving saline—for it is recognised and acknowledged to be the *only* Natural Way to Health.



Natural Health Salt is the pioneer of all health salt—first on the market, and first to be packed in tins. For your trade it is right in every way—Quality, Price and Profit.

If you are not stocking "Natural," send now for particulars and terms to—

Wilkinson & Simpson Ltd.

Manufacturing Chemists,
NEWCASTLE - UPON - TYNE.

NOW IS THE TIME TO ORDER

MASON'S EXTRACT OF HERBS

Newball & Mason
NOTTINGHAM



"Good! It's Mason's!"

Lorimer-Marshall, Ltd. *for* PACKED GOODS



Granular Effervescent Citrate of Magnesia
 Seidlitz Powders (Plain and Lemon Flavoured)
 Health Salt Salines
 Compound Syrup of Hypophosphites
 Blood Purifier Tonic Elixir
 Children's Tonic



AT KEENLY COMPETITIVE PRICES.

LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C.3

Works Telephone : New X 2119.

Telegrams : "Lorimarsco, Bilgate, London."

FOREIGN AND BRITISH WINES

Liebig's Meat and Malt Wine
 (Robinson's Bull Head Brand.)

Lifos Tonic Blood Wines - Vin Ferri-Citratis B.P.

English Port Style

Sherry, Ginger, Orange, Cowslip, Raisin,
 Blackcurrant, Blackberry, Elderberry,
 Tent, Muscadine, Grape, Rhubarb, etc.
 17/- Per Dozen (Bottles Included).

"Oval" Quarts English Port Style
 24/6 Per Dozen (Bottles Included).

Samples Free to the Trade.

B. ROBINSON & CO., LTD.

PENDLETON - MANCHESTER.

WRITE TO-DAY AND COMPARE OUR TERMS

IF YOU WANT GOOD VALUE
 IN

FOREIGN AND BRITISH WINES

"Crown" Brand

Liebig's Meat and Malt Wine, "Win-Ferro" — Tonic Blood Wine, Lime Juice Cordial and Lemon Squash

Write to:—

LAMB & WATT, Ltd.

48 ST. ANNE STREET, LIVERPOOL

for Price List.

ESTABLISHED 1847.

Highest Awards at all International Exhibitions
 where shown.

A TRIUMPH OF BRITISH ENTERPRISE!

'PLAIMAR'

(REGISTERED)

SANDALWOOD OIL

is famous: the sales to-day are double the excellent sales of this time last year and every day brings fresh successes.

The rapid rise to the absolute forefront of the World's markets has not been attained by chance but by years of intense and patient research followed by infinite care in preparation and vigorous and efficient salesmanship.

"Sandalwood lends its fragrance even to the axe which hews it."

PLAIMAR OIL HAS
SUCCEEDED BECAUSE
IT IS ITSELF A SUCCESS

Samples and Prices from
the Sole Agents,
PLAISTOWE & CO., LTD.
King's Cross, London, N.1,
and Paris.

ONE OF LONDON'S ILLUMINATED NIGHT SIGNS



Chemists are finding it profitable to link up with the big, consistent AMAMI Advertising Scheme. Book your order to-day with PRICHARD & CONSTANCE (Whol.), LTD. 4-10 Chenies Street, LONDON, W.1.

?

(WHOLESALE AND EXPORT)

DO YOU

REQUIRE NOVELTIES IN

POWDER PUFFS

LINES THAT "CREATE BUSINESS"

WRITE OR CALL

SPENCER BROS.

MAKERS OF DISTINCTIVE PUFFS

17 FARRINGDON AVENUE, LONDON, E.C.4.

Telephone: HOLBORN 3069.

Pure English Oil of Peppermint

GROWN ON MY OWN FARMS

£1,000 TO CHARITY

I will give £1,000 to any Charity named by any person who can prove my Peppermint Oil to contain any adulterant or foreign oil.

INSPECTION OF FARMS AND DISTILLERY CORDIALLY INVITED.

Seymour's Distillery & Herb Farm, Holbeach, Lincs.

ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies

FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
FIRST QUALITY ESSENCES.

Stocks in London. **PEACH**
APRICOT
HONEY
MAPLE
&c. Ask for Quotations & Samples.

A. CONNELL & CO., Melba House,
WENLOCK ROAD, CITY ROAD, LONDON, N.1
Phone: Clerkenwell 7266. Tele.: "Nitrozone, Ald. London."

Established 1795.

LAUTIER FILS

Works : GRASSE (France) & BEYRUT (Syria).

Essential Oils — Synthetics.
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica (S.A.P.)	Lemon
Basil	Mace
Bay	Melissa
Bergamot	Neroli big and Syn.
Bois de Rose femelle	Orange
Cajuput	Otto de Rose
Caraway	Patchouli
Cinnamon	Peppermint
Cloves	Rosemary
Copaiba	Rue
Costus	Sandalwood
Cubeb	Spike Lavender
Fennel	Tansy
Geranium	Tarragon
Honey	Thyme
Hyssop	Vetivert

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London Edg., S.E.1
Tel. Add.: "LAUTIER, PHONE, LONDON." Telephone: HOF 2819.



We respectfully invite your enquiries
for all kinds of

PERFUMES IN BULK.

All our Perfumes are made
with natural floral bases
manufactured direct from the
flowers in our own factories,
and can be had in any degree
of concentration.

THEY ARE EXCEPTIONAL IN
FINENESS AND DELICACY OF
BOUQUET.

We can supply any odour, and
shall be pleased to submit
samples of special bouquets
for proprietary lines.
For ordinary purposes we re-
commend our

Quadruple Extracts.

We shall also be pleased to
quote for

EAU DE COGNES AND LAVENDER WATERS

We are actual distillers of Oils of
Neroli, Lavender, Bergamot, &c.,
and our prices are based on the
manufacturing costs of the oils.

SPURWAY ET CIE.
LIMITED.

89 GREAT EASTERN ST., LONDON, E.C.2

Telegrams: "Neroli, London."
Telephone: Bishopsgate 1372.

Factories & Distilleries Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

NEW YORK.

KINGSTON (ONTARIO)

HUDSON'S VEGETABLE LEAFLETS

Impart to the Complexion and
Lips a Perfectly Natural Tint
which cannot be detected.

*On Attractive Cards of
One Dozen.*

P.A.T.A. PRICE
6d. each

or 1/4½ for 3 booklets

Sell-at-Sight !

TRADE PRICE
3/9 doz.

Of all the Leading Wholesale
Houses, or

R.J.Reuter Co.Ltd.
69 CARTER LANE,
LONDON, E.C.4

Telegrams :
"Refreshing, Cent,
London."

Telephone :
Central { 4461
 4462

Nuctone

for **GREY HAIR**

**NOW IS THE TIME
TO STOCK IT**

There are many men and women, although youthful in spirit and form, who are secretly perturbed by their greying hair. It is to such people that NUCTONE makes a strong appeal, particularly those who shun the use of instantaneous hair dyes.

NUCTONE restores the normal colour to grey hair by the action of light and air, gradually and without embarrassment to the user. Moreover, the application of NUCTONE is so simple that by merely combing it through the hair its action commences and is permanent until the growth of new hair makes further application necessary.

NUCTONE is absolutely harmless—guaranteed safe and free from any injurious ingredients, such as a combination of lead and sulphur.

The fame of NUCTONE has spread throughout the country and many thousands testify to its efficacy.

Introduce NUCTONE to your Grey-Haired customers NOW and you will make both friends and profits.

Small size 3/9 per bottle. Trade terms 32/- per doz.

Large size 6/6 " " 52/- "

*Showcards and explanatory booklets for
free distribution are furnished on request.*

NUCTONE for dark and medium hair.

**NUCTONE ECLAIRE for fair and
auburn shades.**

NUCTONE CONCENTRE for Gentlemen

Obtainable from :

HENRY C. QUELCH & Co.Ltd.
4, LUDGATE SQUARE, LONDON, E.C.4.

and other Wholesale Houses.

Manufactured by :

STEWART, GOODALL & DUNLOP, LTD.
4, Dering Street, London, W.1.

Four out of Five are Victims

There's Pyorrhea in *your* district. 4 out of 5 over forty and many younger of *your* customers suffer from this dread disease.

You have the widely advertised remedy—Forhan's For the Gums.

There is an enormous market for this profitable, all-the-year-round seller; big repeat business, too. Once used, always used—and daily used, is the invariable story of Forhan's For the Gums.

So make quite sure that your public buy their first tube from you. Attractive Forhan's For the Gums showcards will guide them to your counter.

A supply is gladly sent free on request.

THOS. CHRISTY & CO.,
4-12 Old Swan Lane, London, E.C.4.

Forhan's

FOR THE GUMS

More than a Tooth Paste—it checks Pyorrhea

Formula of
R^o Forhan DDS
Forhan's Limited
Montreal



DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	18/- 31/6	2/- 3/6
A face cream.		
STYMOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ...	36/-	4/-
For obesity.		
SOFT PALERIUM ...	58/6	6/6
For wrinkles.		
LIQUID NAIL POLISH ..	45/-	5/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALESAERS & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
 South Africa: LENNON Ltd., Cape Town, etc.
 SIVE BROS. & KARNOVSKY, Johannesburg.
 India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
 New Zealand: SHARLAND & CO., Auckland and Wellington.
 South America: DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.
 Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

LINE THAT SHOW GOOD PROFITS



Taylor's CIMOLITE PREPARATIONS

50 YEARS' REPUTATION.

Used in all Royal Nurseries and by the Nobility.

CIMOLITE TOILET POWDER.

Boxes, 1/12 (per doz. 9/6)
 Tins, 3/-, 5/6, 11/- (per doz. 27/-, 49/3, 96/-)

Bottles, 3/3, 6/6 (per doz. 30/-, 55/6)

CIMOLITE TOILET CREAM.

Collapsible tubes, 1/3 (per doz. 11/6)

CIMOLITE SOAP.

Per tablet, 8d.; per box 2/- (per doz. 3 tab. boxes, 20/-)

CIMOLITE FACE POWDER.

Boxes, 1/12 (per doz. 9/6)

Tins, 3/- (per doz. 27/-)

Bottles, 3/3 (per doz. 30/-)

CIMOLITE SOAP (Violet-Scented)

Per tablet, 8d.; per box 2/- (per doz. 3 tab. boxes, 20/-)

CIMOLITE SHAVING SOAP.

Sticks, 1/3 (per doz., 11/6)

SHOWCARDS and Counter B.I.s on application.

NOW
ON
THE
P.A.T.A.



Cimolite Preparations are stocked by all wholesale houses.

ATTRACTIVE SHOW CARD obtainable from all wholesalers or direct.

PREPARED ONLY BY

JOHN TAYLOR, Manufacturing Chemist
 30 BAKER STREET, PORTMAN SQ., LONDON, W.1

"Newbery's"

FRANCIS NEWBERY & SONS LTD.

Complete Range
 DRUGGISTS' SUNDRIES
 including

HAIR BRUSHES
 (Whalebone and Bristle)

TOOTH BRUSHES
 (Bone and Celluloid)

SHAVING BRUSHES
 (all kinds)

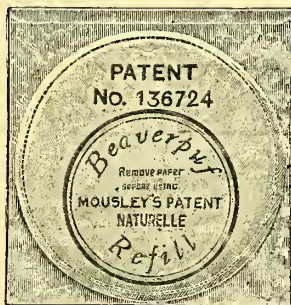
FRANCIS NEWBERY & SONS, Ltd.
 London Cardiff Liverpool

ESTAB. 1777.

ESTAB. 1777

BRISTOW'S*Original***BORACIC OATMEAL
SOAP**

HAS STOOD THE TEST FOR A QUARTER OF A CENTURY

THE "CHEMISTS' OWN" SOAP**33/- less 5% Sells at 4d. with full window display***BUILD UP YOUR SOAP TRADE
WITH A GENUINE CHEMISTS' LINE***T. F. BRISTOW & CO. Ltd., St. James' Walk, Clerkenwell, E.C.**Mousley's
Patent.**"Beaverpuf"***Trade Mark.*Patented
throughout
the World.**Powder Refill for all "Beaverpuf" Models.**Naturelle,
Rachel, Blanche,
Sunburn, Etc.**Price :
6d. and 1/- each.**

Illustrated Booklets, Showcard and Price List on application.

"Beaverpuf" Ltd.**PRIEST BRIDGE,
MORTLAKE,
LONDON, S.W. 14**

Telephone: PUTNEY 166.

SOLE CONCESSIONAIRES FOR GREAT BRITAIN AND IRELAND.

Issued by the Patentee and
Sole Manufacturer:**FRANK MOUSLEY,****"Wilderness" Works,
East Sheen, London, S.W. 14**

This deserves a place on your counter



Piesse & Lubin Ltd.

BRITISH EMPIRE
EXHIBITION.
VISIT US AT
STAND A11
CHEMICAL HALL,
PALACE of INDUSTRY.

will be pleased to answer enquiries concerning their other high-grade products, and to forward catalogue on request.

This handsome new display outer in grey, black and gold contains six nickel screw-top bottles of Piesse & Lubin's **Eau de Cologne (Solide)** and **Lavender (Solide)** selling at 2/6 each.

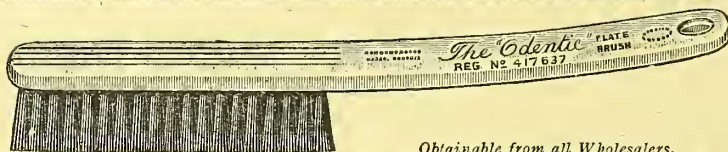
You have only to display it on your counter—the goods will sell themselves.

This Piesse & Lubin line has everything to recommend it—good looks, good value, and a good margin of profit.

Both Lines in Big Demand

You will find it a pleasure to handle. Give it the place in the limelight it deserves!

PIESSE & LUBIN, Ltd., Parfumeurs, 244 HIGH HOLBORN, W.C.1



Obtainable from all Wholesalers.

"ODENTIC" PLATE BRUSH

(Reg. No. 417637)

FOR ARTIFICIAL DENTURES

Manufactured by—

W. R. SPEER & SON (Estd. over 100 years.)
TOOTH-BRUSH MAKERS,
215 DALSTON LANE, LONDON, E.8.



PAPIER POUDRÉ POPPÉE ROUGE

Made in Booklet Form in White, Rose and Rachel tints.
4d., 6d., 8d., and 1/4 sizes at 2/8, 3/9, 5/- and 10/- per dozen
nett, respectively.

ONE SIZE ONLY 1/-, at 8/- per dozen.

Sole Proprietors and Manufacturers:

PAPIER POUDRE, Ltd., 46 Baker Street, W.1
NONE GENUINE WITHOUT ABOVE TRADE MARKS.

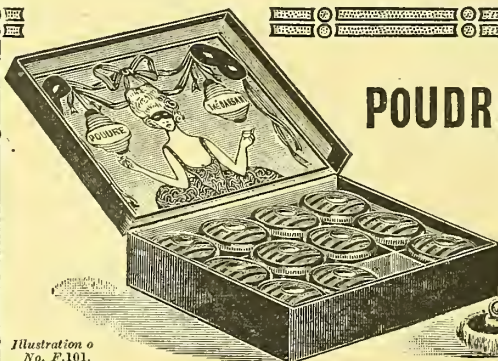


Illustration o
No. F.101.

BIG REDUCTION IN PRICE

POUDRE COMPACTE—"THÉ DANSANT"

(Regd.)

In two } No. F.100 Complete with Puff 6/- doz.
styles } " F.101 " " " and diminishing Mirror 7/6 "

Improvements in our methods and the adoption of more efficient machines designed by ourselves enable us to decrease considerably our production costs of these two charming lines, and we pass on the reduction to the trade so as to keep our increased output fully engaged. You should give these British-made lines a trial.

Manufactured only by

SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, London, E.C.1.
and obtainable through all Wholesale Houses.

WILSON'S CO-RE-GA (POWDERED)

Comfort Powder

Holds False Teeth Firmly in the Mouth

PREVENTS SORE GUMS.

Dentists everywhere are now prescribing and sending patients to Chemists for CO-RE-GA. Sales are increasing tremendously on account of this extensive and intensive dental propaganda work. As a Dental Plate Fixative CO-RE-GA stands alone for dependability and long-lasting adhesive properties.

CO-RE-GA is a ready repeater and sells anywhere, whilst profits are not only good, but amply protected. Add to your personal prestige by handling CO-RE-GA.

LIKE THE DENTIST—RECOMMEND IT WITH CONFIDENCE.

IN METAL CANISTERS:

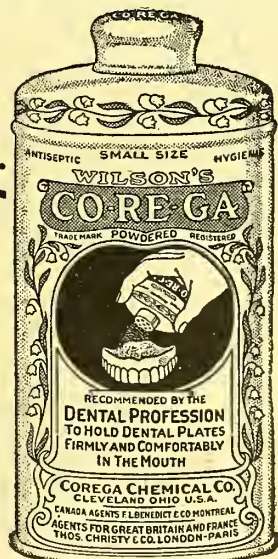
(Small)	1/6 P.A.T.A.	-	-	-	-	Doz. 12/-
(Medium)	2/6	"	-	-	-	" 20/-
(Large)	4/3	"	-	-	-	" 34/-

ORDER FROM YOUR WHOLESALE—*or direct from*

Thos. Christy & Co. (DISTRIBUTORS),

4/12 Old Swan Lane - - - London, E.C.4.

SAMPLES MAILED FREE ON REQUEST.



GIVES
A GOOD
PROFIT

ENSURES
LASTING
BUSINESS

LA REINE des CRÈMES

NOW SHOWS A LARGER PROFIT

to the retailer than any other similar proprietary preparation on the market.

No. 1	15/-	doz. with BONUS	1 doz. Handbag size value	4/6	reducing cost to	10/6	doz.	Retail P.A.T.A. price	2/3
No. 2	23/-	" " "	1 " " " "	4/6	" " "	18/6	" " "	" "	3/6
No. 3	45/-	" " "	1 " " " "	4/6	" " "	40/6	" " "	" "	6/6



NOTE and bear in mind these IMPORTANT FACTS

- No. 1 costs you 10½d. Selling price 2/3
leaving you a profit of 1/4½
- No. 2 costs you 1/6½ Selling price 3/6
leaving you a profit of 1/11½
- No. 3 costs you 3/4½ Selling price 6/6
leaving you a profit of 3/1½

The handbag size sells most readily and is much sought after.

CALMON & NEATE 8 GERRARD STREET, LONDON, W.1
and 12 RUE VIVIENNE, PARIS.

SOLE AGENTS FOR J. LESQUENDIEU, PARIS.

Sole manufacturer of the following well-known preparations: *Creme Speciale, Creme Mousse de Fleurs, Blanc de Cygne, Dolina, Eclador, Farjoli, Depilatoire Sonora, Pate Rosaria, Fluide d'or Pate des Khalifes*, etc., etc.

NEW KOKO TOILET LINES

On the P.A.T.A. List. Allowing full margin of profit

KOKO VANISHING CREAM 1/6 per jar P.A.T.A., 13/6 per doz.

KOKO COMPLEXION POWDER 2/- per box P.A.T.A., 18/- per doz.

(In Natural, Rachel, White and Rose)

KOKO SHAMPOO POWDER DE LUXE 4½d. per pkt. P.A.T.A.,
3/4 per doz.

(USUAL WHOLESALE TERMS)

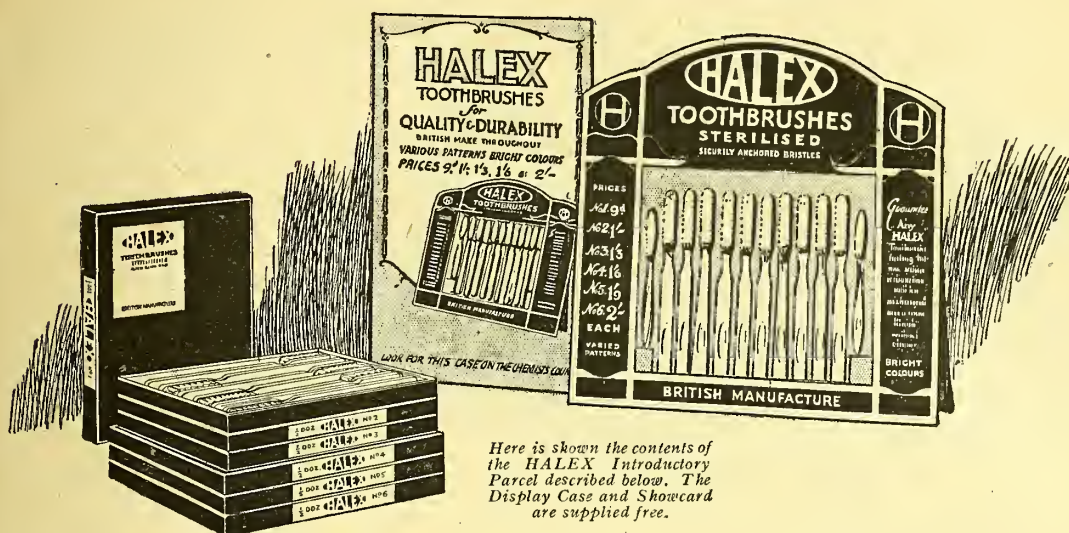
AN extensive advertising campaign has been planned for the new lines together with "**KOKO FOR THE HAIR**," and space has been booked in practically every magazine and daily papers, including "DAILY MAIL," "MIRROR," "SKETCH," "EXPRESS," "CHRONICLE," "DAILY NEWS," etc., etc., for the remainder of the year.

The demand for the new lines has already exceeded our expectations and it is advisable to place your orders at once to ensure prompt delivery.

All orders for Koko Preparations should be sent to our Sole Distributing Agents,
Messrs. **BUTLER & CRISPE**, 80/82 Clerkenwell Road, London, E.C.1.

KOKO-MARICOPAS CO., LTD.,
16 Bevis Marks, London, E.C.3.

Telephone:
AVENUE 595.



Quick Profits for you

Secure this Halex Introductory Parcel and avail yourself of a big campaign to sell more tooth brushes—

INSTEAD of asking you to take big stocks of HALEX Tooth Brushes we intend first to prove to you that you can sell them—quickly, profitably, and with every satisfaction both to you and to your customers.

We are making a special offer of an Introductory Parcel consisting of a minimum representative supply of our new HALEX Range.

The HALEX Range is a selection of the six most popular and best-selling patterns of Tooth Brushes. These are graded in six prices from 9d. to 2/-, and

each pattern is obtainable in six different and distinctive colours.

Generous terms are offered and your profit averages 60% on cost.

Halex Advertising begins on May 29th

Commencing on May 29th, we shall launch more advertising than has ever before been issued to sell Tooth Brushes.

The first series of advertisements will be concentrated day after day for a period of three weeks in the leading national daily papers of the largest circulation.

All you have to do is to place the HALEX Display Case on your counter and the Showcard in your

window. We will create demand. You take no risk whatever.

A Special Offer of an Introductory Parcel

In conjunction with an opening period of three weeks' intensive advertising of HALEX Tooth Brushes we offer you the following special parcel:—

1 dozen HALEX Tooth Brushes (two of each pattern) in Display Case. Extra stock of half-dozens (boxed) of each of the six patterns. Also HALEX Showcard for Window Display ... **40/-**

Trade enquiries should be made through your usual wholesaler.

The British Xylonite Company Ltd.
Hale End, London, E.4

★ Order the Introductory Parcel from your Wholesaler AT ONCE

Halex Tooth Brushes

WAITE'S ANTI-PY-O DENTAL CREAM



has earned its great reputation in America by its wonderful efficiency in mouth hygiene.

The cleansing qualities of "Waite's" are fully recognised by the dental profession, and its success is due in large measure to professional recommendation.

You will like the unusually pleasant flavour of this dentifrice. "Waite's" is a thoroughly efficient cleansing agent. It removes the film from the teeth without harshness. "Waite's" destroys millions of germs in the mouth.

It is not a pasty, gummy preparation, but a velvet smooth cream which, when applied to the teeth, immediately fades away.

Chemists who recommend Waite's Dental Cream to their customers win their hearty approval.

Mail for a free full size tube of Waite's Dental Cream for your own use and tests. Convince yourself that it is the kind of dental cream you want your friends to use.

Sole Agents: **The Dental Manufacturing Co. Ltd**
Alston House, Newman Street,

Branches throughout the Provinces.

LONDON, W.1

Peldo

(Patent applied for)

THE INVISIBLE GLOVE

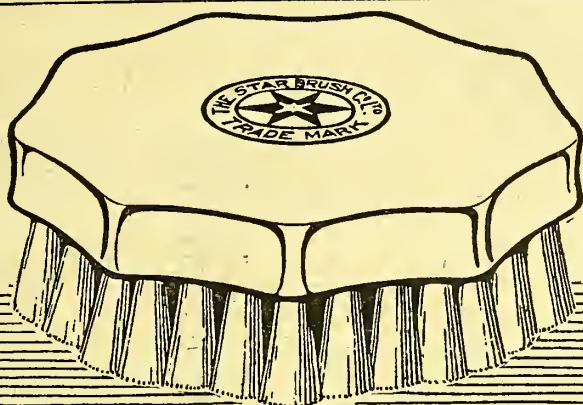
We have been demonstrating at the "Ideal Home" Exhibition with great success, and have created thousands of new users. See page 346, C. & D., 8/3/24:—"The demonstrations of the use of 'Peldo' are creating crowds."

IF YOU SHOW 'PELDO' YOU WILL SELL IT!
'PELDO' IS ORIGINAL. It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.
WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.
Devon Wharf and Bell Wharf,
EMMOTT STREET, MILE END, LONDON, E.1.



What the Public Wants

is the brush with the STAR on the back. Through our national advertising they have read about them and used them for domestic purposes, and, as a result, in millions of homes STAR BRUSHES are proving their sterling worth.

Now, when they see a STAR nail brush displayed they at once recognise it as one of the STAR family, and accordingly have confidence in the brush and in the shop that sells it.

The prestige and popularity of the STAR can be the basis of a satisfied clientele for you. Have you a copy of our latest catalogue? One will be gladly sent you.

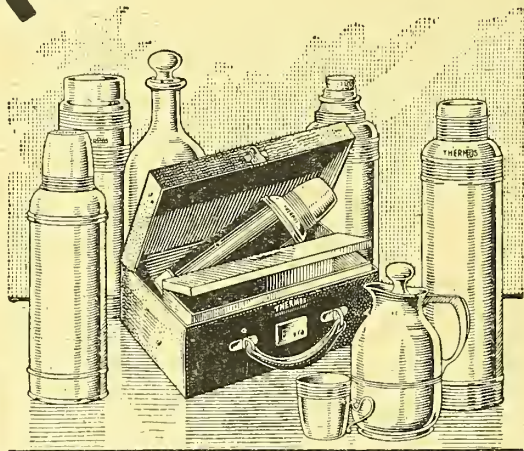
STAR NAIL BRUSHES



36

STAR BRUSH CO., LTD.
Eden Grove, Holloway, London, N.7.

THERMOS



OUT-O'-DOOR DAYS ARE 'THERMOS' DAYS

THOSE Dealers who are enterprising enough to show a representative range of 'Thermos' vessels NOW will make gratifying sales during the summer months. Thermos Flasks for outdoor week-ends, Ice Cream Jars for the home, Carafes for iced drinks, Butter Jars, Picnic Cases—you could sell one or more of these lines to twenty per cent. of the people who enter your shop.

THERMOS LTD.

32, LONDON WALL, E.C.

Bidwells'

YELLOW BRISTLE IN CENTRE—
WHITE BRISTLE ENDS.

IN TRANSPARENT TUBES;
STERILISED AND SEALED AT
FACTORY.



"Gloria" 1924 Model

REGD 314972

No 2

STRONG IN CENTRE WHERE STRENGTH IS REQUIRED.

17/- A DOZEN MEDIUM. 19/- A DOZEN HARD.

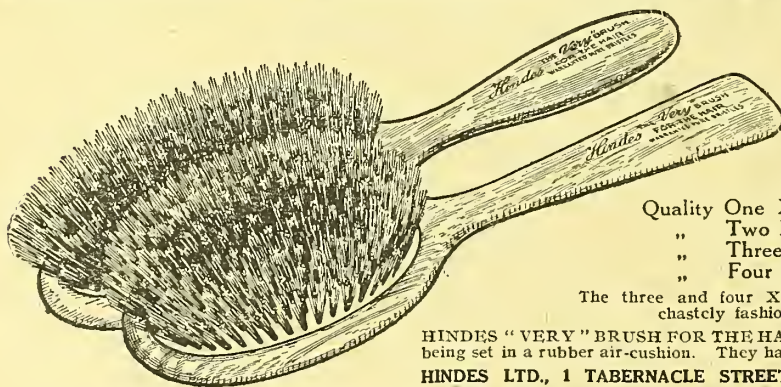
BEST QUALITY ONLY.
HARD AND MEDIUM.

HANDLES ASSORTED.
VENTILATED—
HOLE IN HANDLE.

Castle Mills

LONDON OFFICE AND SHOWROOMS:—
Australia House, Strand, W.C.2

Exminster, Devon



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.
HINDES LTD., 1 TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM.

Telegrams :
"Aybelim, London."

Cables :
Codes, A.B.C. 5th Edition.

TRADE



MARK.

Telephone :
CLERKENWELL 1347
" 1348
" 1349
Pte. Exchange

SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES

NOTICE

Having concentrated

OUR SIX LONDON WAREHOUSES,
FACTORIES, OFFICES & SHOWROOMS
IN ONE BUILDING

Our Address is now

"BRITANNIA HOUSE"
238-248 OLD ST., LONDON, E.C.2

Goods Entrance :

BRITANNIA HOUSE YARD, COWPER STREET,
LONDON, E.C.2

ARTHUR BERTON LTD.
LONDON-MANCHESTER-GLASGOW

CLINICAL THERMOMETERS

BEST ENGLISH MAKE GUARANTEED

Further Reduced Prices.

The "EMPIRE" Brand.

(Ordinary Pattern.)			
		per doz.	s. d.
Hospital pattern	...	12	6
" lens front	...	14	0
60-seconds, plain	...	15	0
" lens front	...	17	0
30-seconds, plain	...	17	0
" lens front	...	19	0

The "DUO-IN-UNO."

(Quick Shake-Down.)			
		per doz.	s. d.
Hospital pattern	...	20	0
" lens front	...	22	0
60-seconds, plain	...	23	0
" lens front	...	24	0
30-seconds, plain	...	24	0
" lens front	...	27	0

Each one in metal case, and packed in a specially designed card box with descriptive label on lid.
Customers can have their names engraved on any of the above Thermometers free of charge.

NOTE.—The above prices are for guaranteed best London Made Thermometers but which are NOT STAMPED at the National Physical Laboratory. If they are required so stamped (N.P.L.) the price will be 3/- per dozen more in each case.

	per doz.	s. d.
Metal cases for above, ordinary hexagon shape	2	0
" with clip for waistcoat pocket	3	0
" The "Grafton," for resetting index in ordinary pattern	10	6
No. 1076—PULSE COUNTER, in nickel-plated frame, to record in 15 seconds, 30 seconds, or 60 seconds	7	6

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

BURGE, WARREN & RIDGLEY, LTD. 91 & 92 GREAT SAFFRON HILL LONDON, E.C.1.

A LINE WORTH SPECIAL ATTENTION.



NORVIC CRÉPE BINDERS

Regd.

Beautifully elastic, yet firm and strong, they stretch to double their length and give that support which is so essential in all cases where durability is required. Their warm, soft touch is a delight, and they are

INVALUABLE IN MATERNITY

Made in widths 6, 8 and 11 inches, they have superseded the old-fashioned harsh webbing. Show them to young matrons. Recommended by doctors and nurses everywhere.

Sole Manufacturers:

GROUT & CO., LTD., Great Yarmouth.

Stocked by all leading wholesalers.

T. H. FORD
LIMITED



G. WELL ST.
LONDON, E.C.1.

Telegrams: Droscolum. Cent. London. Telephone: City 2522 (Private Branch Exchange).

FIRST AID CABINETS

Delivery from Stock.
"INGOT" quality throughout.

0	Cloth covered (50)	10	8
1	Wooden box	16	0
A	Superior do., drop front	22	0
B	Cabinet de Luxe (51-150)	63	0

Subject 25% Trade Discount.

BIGGER BUSINESS



Dr. Scholl's Foot Comfort Appliances and Specialities are in ever increasing demand. By displaying them you will materially increase your custom and sales. "Scholl" goods show a generous margin of profit

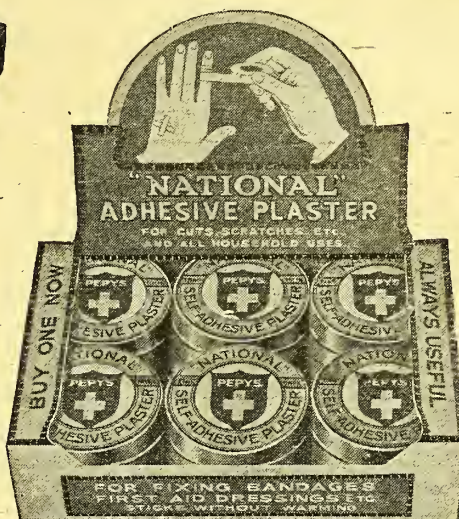
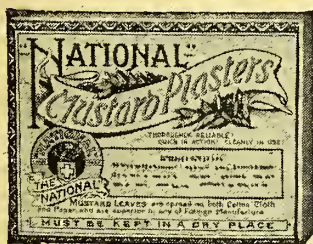


Dr. SCHOLL'S PED-O-KUBE
FOR THE FOOT BATH.

A refreshing antiseptic preparation for tender, hot and swollen feet. Retail price 2/- per box (One dozen cubes).

Write for Illustrated Catalogue.
The SCHOLL MFG. CO., Ltd.
1-4 Giltspur St., E.C.1.

Medical Plasters for every purpose



Our range of Plasters is extensive and meets the needs of all your customers. It meets your needs too, by giving satisfaction to your customers and profit to you.

There are no better plasters made and rapid sales amply repay you for stocking and displaying them.

These are a few of our products. There are many others. Let us send you our illustrated Centenary Price List—it is well worth a post-card.

A. de St. Dalmaz
 & Co. Ltd.
LEICESTER

Established 100 Years.

There's NOVELTY AND PROFIT in



They cost 5d. and Sell at 9d.
(1 doz. Bonus with 1 gross).

Adequate Window Display, which
compels attention.

YOU CAN MAKE THIS A LINE OF YOUR OWN.

Read these, and then consider whether you are not missing business.

A YORKSHIRE PHARMACIST WRITES :—

"I must compliment your firm on your Carnation Corn Caps. My customers speak very well of them."

A SUSSEX PHARMACIST WRITES :—with his 5th order

"Kindly send per return post 1 Gross Carnation Corn Caps and bonus.

These are still going strong here and answering wonderfully well, effecting marvellous cures daily."

CUXSON, GERRARD & CO., LTD.
MANUFACTURING CHEMISTS, OLDBURY

"GEISHA"



H. C. STERN

Lovell's Ct., Paternoster Row, London, E.C.4

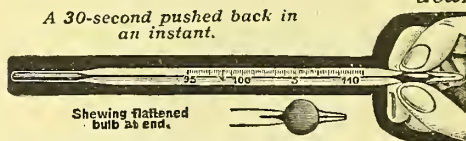
Telephone Central 6859.

Telegrams: Glastos, Cent, London.

ZEAL'S REGISTERED

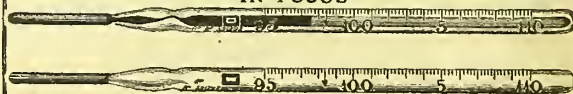
Clinical Thermometer
The REPELLO requires no shaking down

A 30-second pushed back in an instant.



NEW IMPROVED
LENS FINDER

The only Easy Reading Magnifying Clinical on the Market.
IN FOCUS



OUT OF FOCUS

The square mark engraved on lens front

locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907

SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913

All Clinical Thermometers are supplied N.P.L. Tested unless otherwise ordered.

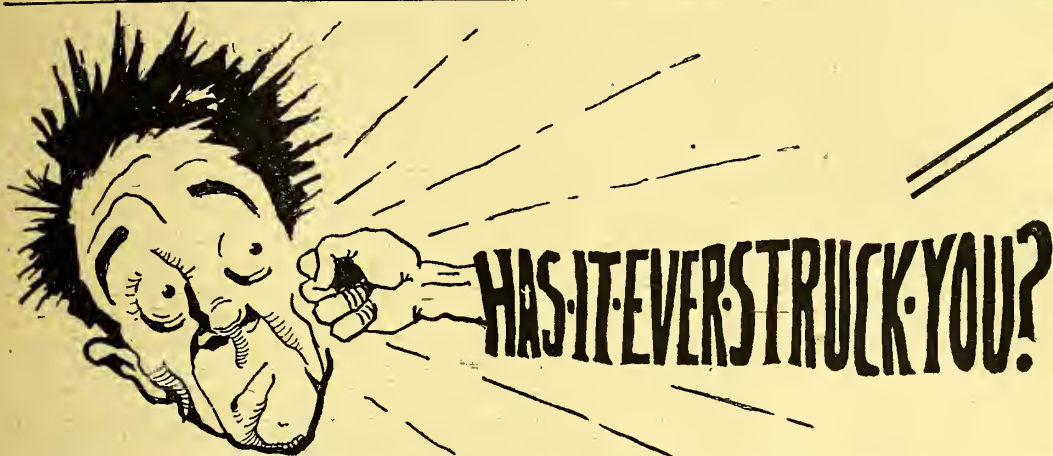
G. H. Zeal, Ltd., 77, St. John Street, Clerkenwell, London, E.C.1.

Established 1888.

Wholesale Manufacturers of Clinical Thermometers.

Contractors to H.M. Government.

Telegrams: "Zeal-dom, Smith, London." Tel. No.: Clerkenwell 520



**That the present methods of delivery
need immediate improvement —
That we can supply your needs NOW**

That *The* **Abbey Box-Carrier** gives you
the following overwhelming advantages:—

The Box is a Lock-up.—It
is Weather and Dust-Proof.

The Tyres are unpuncturable.

The Machine cannot fall
over.

It carries more Goods.

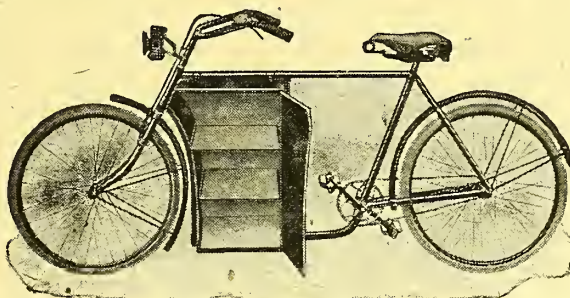
The Box is fitted with
Detachable Shelves.

A Large Advertising
Surface is available.

It is conspicuous.

The Machine is Safer
to Ride.

It is More Speedy.



PRICE COMPLETE

£16:0:0 or

£4 10 0 down and £1 2 6
per month for 12 months.

Basket, Bottle and Syphon Racks can be fitted to suit All Trades.

Write for full particulars without delay.

ABBEY BOX-CARRIERS, LTD.
318, KING STREET, HAMMERSMITH, W.6

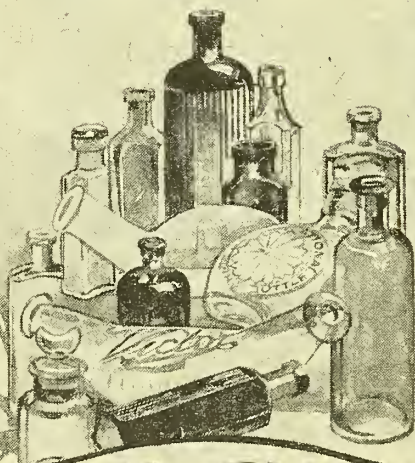
Telephone: HAMMERSMITH 399.

BOTTLES

*and Glassware
of Every Description
for the Trade*

WHOLESALE ONLY

In all colours
MEDICAL FLATS
PANELS
VIALS
POISONS
LYSOLS
LIMES
KALIS
MEXICANS
PERFUMES
FEEDING BOTTLES.
E.C., & C.



LAX & SHAW

LIMITED.

*Albert Glass Works,
Hunslet, Leeds.*

BEILINDA GLASS WAS HUNSLT. CLARENCE GLASS WKS HUNSLT.
TELEGRAMS: FEEDERS, LEEDS. TELEPHONES 23047, 23080

BOTTLES

Wholesale, Retail and Export.

MEDICAL FLATS, VIALS, POISONS, PANELS, &c.
GOOD QUALITY, ACCURATE MEASURE. CARRIAGE PAID

Established 100 years.

THE NORTH LONDON GLASS BOTTLE CO.
(I. ISAACS & CO.)

Head Office: 106 Midland Road, London, N.W.1.

Warehouse and Stores:

London Midland & Scottish Rly. Goods Depot, St. Pancras.

Telephone: Museum 4209. Telegrams: "Isaglasbot, Kincross, London."



VISKAP

SELF-FIXING
BOTTLE CAPS

Transparent, Opaque,
or Coloured.

Immediate Delivery

From the Manufacturers:
**THE VISCOSE
DEVELOPMENT Co., Ltd.**
Viskap Works,
BROMLEY :: KENT

Buy British Goods from the Actual Manufacturers.
PESSARIES: WATCH-SPRING, CHECK & NAPIER
And every description of Surgical Appliance
in Cut-sheet and Seamless Rubber:—

THE WINCHESTER MANUFACTURING CO. LTD.

Members of the "National Union of Manufacturers."
Regd. Offices - - - 21 THE SQUARE, ISLEWORTH.

TINORI PAINLESS CORN CURE

IS A TRIED AND GUARANTEED REMEDY.
P.A.T.A. 2/- From All Wholesalers.

EUGENE MAC SWEENEY, MFG. CHEMIST, CORK.

**1/6 and 2/6, and 7lb. Tins
at P.A.T.A. Terms.**

Obtainable through the wholesale trade,
or apply for special agency terms to—
JOHNSTON & ADAMS, DUNDEE.



SLIPPERINE

REGISTERED

GLASSWARE

Now's the time to buy Bottles

SPECIALLY REDUCED PRICES TO CLEAR

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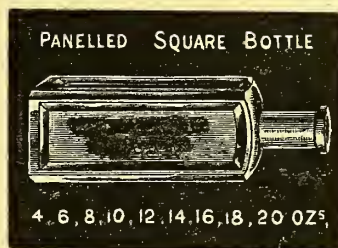
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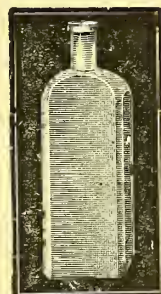


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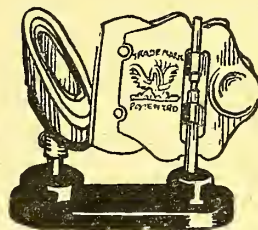
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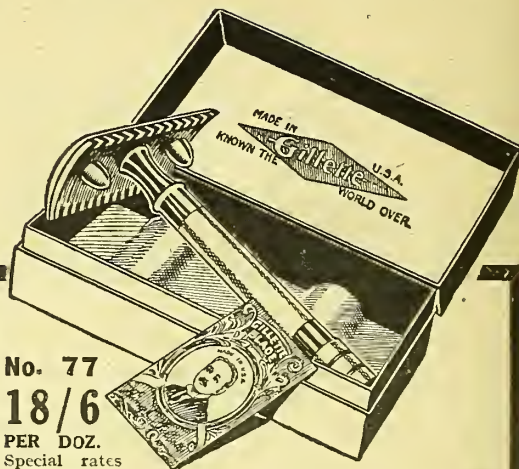
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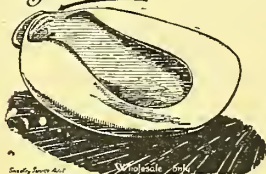
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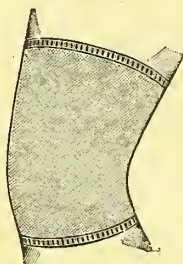
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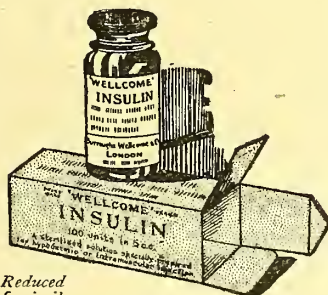
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Coming Events

Tuesday, May 20

Pharmaceutical Society of Great Britain, Hotel Russell, Russell Square, London, W.C.1, at 6.45 p.m. for 7 p.m. Annual dinner. Tickets (inclusive of wine), 25s. each, from the Secretary, 17 Bloomsbury Square, W.C.

Wednesday, May 21

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 12 noon. Annual meeting of members.
Liverpool Pharmacists' Golfing Society, Formby Golf Club. Match v. Manchester and district for Gibbs Challenge Trophy. Medal play.
Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 p.m. Sir William J. Pope, F.R.S., "The Outlook in Chemistry."

Thursday, May 22

London Chemists' Golfing Society.—Fixture at Old Ford Manor. London (Western) Pharmacists' Association, Slater's Restaurant, 192 Oxford Street, W.1, at 8 p.m. Annual meeting. To be followed at 9.30 p.m. by the annual general meeting of the West London Branch of the Pharmaceutical Society.
Pharmaceutical Society of Great Britain (Cambridge Branch), "The Dug-out," Guildhall Street, at 3 p.m. Sir Wm. Glynn-Jones on "Ten Years of the Society's History, 1913-1923."

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Council Election

The voting papers for the election of seven councillors of the Pharmaceutical Society of Great Britain were sent out at the end of last week. There are ten candidates for the seven seats, but Mr. A. E. Marsh, whose name appears on the list, has intimated that he has withdrawn his candidature, and that votes recorded for him will be wasted. The names of the seven retiring members who are seeking re-election, and whose address is given in the Coloured Supplement, are indicated on the voting paper by asterisks. Mr. F. A. Lawman and Mr. Thomas Hardy, who have many supporters, also indicate their views. The voting papers must be received by the secretary of the Pharmaceutical Society not later than 12 o'clock noon, May 21, but may be delivered personally at the annual meeting, a ballot box being provided at the meeting for that purpose.

The Opium Trade

The Representative Board of the Society for the Suppression of the Opium Trade at a meeting on May 5 in the Central Buildings, Westminster, decided that it could not accept the policy of the India Office with regard to opium as contained in the statement made to the Imperial Conference. The Board recorded its view that the policy in respect to the Indian trade in opium and morphine, whether for home or foreign use, should be strictly limited to medical and scientific requirements. It considered that the time had arrived when the supply by India of opium to the Governments of the Federated Malay States, Ceylon, British North Borneo, the Dutch East Indies, Hong Kong, and Cochin China should cease. The Board further urged upon the League of Nations the necessity of inviting the Governments of coca-producing countries to cease the promiscuous export of the leaves, and to encourage the production and use of effective but non-addictive drugs in place of cocaine. The Board submitted that, meanwhile, the production of cocaine should be confined to firms licensed for the purpose. The meeting appointed a subcommittee to get in touch with Mr. C. F. Andrews and the Anti-Opium Society of India, with a view to taking concerted action.

Poisoning Charge

At Woking Police Court, on May 12, Mabel Theresa Jones, widow of the licensee of the Blue Anchor Hotel, Byfleet, whose death after taking a dose of salts led to a charge of murder being preferred against Jean P. Vaquier, a Frenchman (see *C. & D.*, May 10, p. 646), was examined by Mr. H. D. Roome, on behalf of the Director of Public Prosecutions. In the course of the proceedings Mrs. Jones, in describing the events which occurred on the morning of her husband's death, stated that he took the bromo salts from the mantelpiece and poured a teaspoonful into a glass of water. Mr. Roome: What happened then?—My husband said "These damned things won't fizz this morning." He stirred the water and drank the contents of the glass at one gulp. He at once exclaimed, "Oh, God, they are bitter." I poured out some of the salts—I emptied it all—on to my hand. How much was there then?—I poured out nearly all, about half a teaspoonful, and tasted it. How did they taste?—Very bitter. Having tasted them, what did you do with them?—Poured them back into the bottle and put the top on. While the contents of the bottle were in your hand did you notice anything?—Yes; long, transparent crystals. Had they the appearance of ordinary bromo salts?—No; bromo salts are like magnesia. When you put them back into the bottle from your hand did you get it all back into the bottle?—No; some of it dropped on the floor. Mrs. Jones next related how she put the bottle in the dresser drawer and gave her husband salt and water to drink. It made him sick, and later he said his body was getting numbed and his feet were cold. Asked as to her husband's condition after being carried upstairs, witness described how

he was clutching the bed-rail, and his body was drawn up. After Mr. Jones's death, at the doctor's request, she fetched the bottle of bromo salts, and noticed that it was not in the same position in which she had put it. Later, she saw the doctor in the bar parlour picking up crystals, and these he subsequently wrapped up and gave to a policeman. The case was adjourned until May 17.

Public Institution Affairs

Eton Urban District Council has accepted the tender of Mr. C. J. Reid, chemist and druggist, for the supply of drugs, etc.

At a meeting of St. Pancras (London) Guardians, the appointment of a temporary dispenser at the Highgate Hospital at a salary of £5 5s. a week, with fares and dinner daily, during the absence of Mr. J. F. Turner, chemist and druggist, on part of his annual leave, was approved.

Birmingham

Mr. H. H. Marshall, chemist and druggist, Moseley, has been appointed a churchwarden at St. Agnes's church.

The Birmingham branch of the British Industries Fair was opened at Castle Bromwich on May 12. The visitors have included many from overseas.

Mr. A. S. Price, chemist and druggist, Rowley Regis (A. S. Price & Co., Ltd., chemists), was, in the Divorce Court, London, on May 13, granted a decree *nisi* against his wife, Alice Beatrice. There was no defence.

Members of the Birmingham Pharmaceutical Association who are desirous of visiting the Vinolia works and Port Sunlight on June 11 should send in their names at once, if they have not already done so, to the secretary, Mr. F. Smith.

Mr. C. W. Peck, who has gained certificate of honour in chemistry at the Pharmaceutical Society's School of Pharmacy (*C. & D.*, May 10, p. 667), is the only son of Mr. T. W. Peck, chemist and druggist, the General Hospital.

At the annual meeting of the Birmingham section of the British Association of Chemists, Mr. A. W. Knapp (Cadbury Bros., Ltd.) was elected *Chairman* and Mr. Hampton, son of Mr. G. Hampton, chemist and druggist, Smethwick, *Vice-Chairman*.

Hull

Purchasers of films at one pharmacy here may, for a limited period, have them developed free of charge.

Photographic apparatus and hat dyes are the most prominent features of the window displays of local chemists at the moment.

The Hull Pharmacists' Association and local Branch of the Pharmaceutical Society has formed a tennis club. The court is at the White City.

Liverpool

The rain delayed the opening of the tennis season of the Pharmacy Club.

Hope is being expressed that the *C. & D.* "Nature Pictures of Medicinal Plants" may be resumed in the near future.

Bath has taken a hold on Merseyside pharmacists for July, and the proximity of Wells and Glastonbury is suggesting excursions for the ladies.

Manchester

A well-known suburban chemist and his wife have just returned from Rome, where they spent a pleasant vacation.

Chemist-golfers are reminded that the Manchester v. Liverpool match for the Gibbs Challenge Cup takes place at Formby Golf Course (Freshfield) on May 21.

Mr. W. H. Harrison, chemist and druggist, Chorlton-cum-Hardy, has acquired the business of the late Mr. W. Bently Capper, 21 Oxford Road, Chorlton-on-Medlock.

At a council-meeting of the Manchester Pharmaceutical Association, on May 8, the following officers were appointed for session 1924-25: Mr. R. G. Edwards, *President*; Mr. D. Dickson and Mr. F. W. Bates, *J.P.*, *Vice-Presidents*; Mr. A. J. Pidd, *Treasurer*; Mr. T. Miller, *Secretary*; Mr. J. Franklin, *Assistant-Secretary*.

Miscellaneous

WINDOW SMASH.—The window of the Otley branch of Taylor's Drug Stores, Ltd., was smashed, recently, by a motor-cyclist, who had lost control of his machine.

FIRE.—There was an outbreak of fire on the premises of Burge, Warren & Ridgley, Ltd., druggists' sundriesmen, Great Saffron Hill, London, E.C.1, on May 13. The damage was mainly confined to the top floor.

ASSISTING TRADERS.—Among the recipients of grants at the spring distribution from a local scheme—a combination of several ancient foundations—for assisting young men in commencing or extending their business, is Mr. J. H. Larrad, chemist and druggist, Leicester, who receives £100. The grants are in the nature of loans, free of interest, for a certain period.

INQUESTS.—At Southwark, London, S.E., on May 13, an inquest on the body of Lilian Beatrice Way, Lewisham, resulted in a verdict of "Death by misadventure." Deceased was found unconscious in a train at London Bridge Station, on May 10, and in her bag were two bottles of chlorodyne, one half empty. Mr. Way stated his wife had in 1921 been cured, so far as is known, of the habit of taking laudanum. A year ago, however, she restarted the habit. Describing chlorodyne as "filthy stuff," he said he thought the sale of it should be restricted. Dr. J. A. Currie, Guy's Hospital, said the woman recovered from the effects of the drug, notwithstanding that she had taken thirty-two times the maximum dose. Death was due to respiratory failure through the inhalation of food into the windpipe following recovery from chlorodyne poisoning. He did not think the law was strong enough regarding the sale of chlorodyne.—On the same date, Dr. Waldo, coroner, at an inquest at Southwark, expressed the view that such drugs as aspirin and headache powders should be taken only on a doctor's prescription, because they had such a bad effect on the heart. "I was in a shop some time ago buying some pins," he added, "and there was any amount of aspirin displayed on the counter."

IN THE COURTS.—At Kensington, recently, David Cohen, provision dealer, Hammersmith, was fined 40s. and 10s. 6d. costs for selling tinned peas containing copper sulphate which were injurious to health. The analyst's certificate stated that the copper sulphate was present in the amount of 2.5 grains per pound of peas. Defendant, who pleaded guilty, said he was not aware that the copper was present in such quantity.—At Tower Bridge Police Court, London, on May 13, before Mr. Waddy, George Hardwicke was charged as an unauthorised person being found in possession of a quantity of "dangerous" drugs. Detective-Sergt. Winter deposed that as Hardwicke was believed to be in possession of a quantity of "dangerous" drugs he was arrested and searched, when two metal cigarette cases were found on him. These contained, among other drugs, four tubes of morphine tartrate and five tubes cocaine hydrochloride. In another case was a metal hypodermic syringe and six hypodermic needles. A remand was ordered.—At North London Police Court, on May 13, Benjamin Mosche, charged on remand with stealing a quantity of drugs, the property of Dr. J. Young, Southgate Road, N., was again remanded.—At the Mansion House Police Court, on May 14, John S. Sayers, an American citizen, was fined £210, or two months, for being in possession of 28 lb. of uncustomed saccharin.

LONDON CHEMISTS' GOLFING SOCIETY.—The visit to the Shirley Park Golf Club, on May 11, was a great success. The course was in excellent condition and the play was most enjoyable. The competitions for the Hill Cup and Vinolia Prize ended in a tie between Mr. E. A. Geddes and Mr. G. S. Morrison. In the play-off, Mr. Morrison took the latter and Mr. Geddes the former. The four-ball

foursomes was won by Messrs. T. W. D. Turner and Mr. E. A. Geddes. The leading scores were as follows:—

<i>Medal</i>		<i>Bogey</i>	
E. A. Geddes ...	96—16=80	E. A. Geddes ...	5 down
G. S. Morrison ...	94—14=80	G. S. Morrison ...	5 down
M. W. Carmichael ...	93—7=86	W. A. Phillips ...	8 down
T. W. D. Turner ...	89—2=87	H. W. Bartlett ...	9 down
W. Jones ...	102—14=88	W. Main ...	9 down
W. Main ...	91—3=88	M. W. Carmichael ...	9 down
H. W. Bartlett ...	92—4=88	W. Jones ...	10 down
C. E. Harrod ...	105—16=85	L. W. Garrett ...	10 down
W. A. Phillips ...	97—8=89	C. E. Harrod ...	10 down
J. Jones ...	99—9=90	T. W. D. Turner ...	10 down
L. W. Garrett ...	106—15=91	G. S. Worssam ...	11 down
G. S. Worssam ...	109—18=91	J. Jones ...	12 down

Four ball Foursomes

Bogey

T. W. D. Turner and E. A. Geddes ...	... 1 up
F. Jones and D. J. Parry ...	... all square
G. S. Morrison and C. E. Harrod ...	... 4 down
M. W. Carmichael and G. S. Worssam ...	... 5 down
H. D. Roffey and H. B. Walker ...	... 8 down

As there are seven more outings this season, the Society would welcome anyone connected with pharmacy to join. Application forms may be obtained from the secretary, Mr. D. J. Parry, 71 Newman Street, London, W.1.

Scottish News

Brevities

Considerable damage was caused at Invergordon, on May 8, by an outbreak of fire, the business premises of several firms being involved, including those of W. J. Ogilvie & Co., chemists.

Stevenston Parish Council has accepted the tenders of Mr. G. Nicol, chemist and druggist, Stevenston, and Miss Walker, chemist and druggist, Saltcoats, for the supply of medicines to the poor.

The death has occurred of Mr. T. Jamieson, F.I.C., for a number of years the city analyst of Aberdeen, aged seventy-four. Mr. Jamieson, who was a native of the granite city, was particularly interested in the chemistry of plant life and agricultural science, in connection with which he had established a wide reputation.

The annual competition for the Ayrton Saunders trophy of the Scottish Chemists' Bowling Association will be held at Kirkcaldy on June 4. Entries (10s. per rink) should be made before May 21 to the secretary, Mr. J. T. Simpson, chemist and druggist, 268 Crown Street, Glasgow. Bowlers who are unable to complete rinks should communicate, stating position they generally play in rink, with the secretary, who will endeavour to find places for them or will complete rinks as the case may be, entrance fee being 2s. 6d. per player. The annual meeting will be held in the Station Hotel after the game.

Edinburgh

The police have been making inquiries regarding recent sales of strychnine.

The prices of glycerin and beeswax are being severely cut by one local drysalter.

Notwithstanding the somewhat showery weather, there was a good turn-out of members of the Edinburgh Chemists' Golf Club at Liberton, on May 7. The leading scores, which qualified for the Pinkerton Gibson trophy, as well as for the Captain's prize, were as follows:—(1) E. Brindle and A. Henderson (a tie), 75; (3) J. P. Gibb, 77; second class, A. E. Kelly, 78. On the replay, Mr. Brindle won by a narrow margin. Members are reminded that the first round of the hole-and-hole competition must be played by June 4. The secretary will be pleased to help any member who finds a difficulty in getting in touch with his opponent.

Fife

Mr. J. W. McDonald has acquired the business of Mr. W. Ballingall, chemist and druggist, Brown's Buildings, Main Street, Kelty.

Mr. J. Barnet, Kirkcaldy, has applied to the Fife County Council for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

Mr. W. Ballingall, chemist and druggist, Brown's Buildings, Main Street, Kelty, has taken over the business formerly carried on by M. Sprowart & Co., chemists, Denbeath, Methil.

The decision of Sheriff-Substitute in Dunfermline Court, recently, has been upheld by Sheriff-Principal in the case in which Mr. E. J. Taylor, electrical contractor, Lochgelly, sued Mr. A. Bell, chemist and druggist, Dunfermline, for £23 in payment of wireless set pursuer installed in defendant's house (see *C. & D.*, March 15, p. 361).

Glasgow

Miss E. Love, chemist and druggist, has taken over the business of Mr. D. A. Hutchison, 70 Caledonia Road.

Miss E. M. Dougall, chemist and druggist, has acquired the business, of Mr. J. Smith, chemist and druggist, 48 Wilton Street.

The rambling section of the Glasgow Pharmacy Club will go for an all-day outing to the Falls of Clyde on May 19, leaving the Central Station by the 9 a.m. train for Lanark.

Irish News

McMullan Challenge Cup

The sixth annual chemists' golf competition for the McMullan Challenge Cup will be held on the links of the Ballymena Golf Club on June 3. The competition is to be confined to members of the Ulster Retail Drug Trade Association, and those in connection with the drug trade in Belfast and district, subject to the approval of the Committee. Mr. J. A. Woodside, Ph.C., has invited the competitors to lunch, which will be served in the clubhouse from 1.30 p.m., after the preliminary stroke rounds, and after lunch a short meeting will be held. A consolation eighteen-hole stroke competition will afterwards be played under handicap, for prizes presented by Mr. J. A. Woodside. The draw takes place on May 29, and entries must be received not later than first post on that date by Mr. W. J. Rankin, jun., 11 Waring Street, Belfast.

Wills

MR. WILLIAM FRANKLIN WILKINSON, chemist and dentist, 30 Holly Road, Blackpool, who died on January 28, left estate of the gross value of £12,339 7s. 8d., of which £3,737 3s. 9d. is net personalty.

MR. JOHN WESLEY ELLIDGE, chemist and druggist, 228 Oving Road, Chichester, who died on April 1, left estate of the gross value of £12,169 13s. 2d., with net personalty £12,039 1s. 5d. Probate of the will has been granted to William Inkson, 50 Lyndhurst Road, Chichester. The testator left (among other bequests) £200 to the Benevolent Fund of the Pharmaceutical Society of Great Britain.

MR. JOHN WALKER LEITCH, B.Sc., Somerville, Edgerton, Huddersfield, and of John W. Leitch & Co., Milnsbridge, and Lankshear, Wickstead & Co., Ltd., manufacturing chemists, London and Woodley, who died on April 10, 1921, left estate of the gross value of £163,470, with net personalty £161,383 6s. 5d. The testator gives the household effects to his wife, £100 to William McGee, and the residue between his children.

French News

(From the "C. & D." Paris Correspondent.)

THE UNIVERSITY OF STRASSBURG has now 2,800 students—the number during the German occupation of Alsace never reached 2,000. The number of foreign students now exceeds 300, Serbia heading the list.

MEMORIAL TO A PHARMACIST.—The ex-"internes" (hospital house pharmacists) of Saint Antoine Hospital, Paris, have decided to place a commemorative slab in the hospital pharmacy to the memory of M. Marius Lextreit, thirty years head pharmacist of the hospital, and chief of the Analytical Chemistry Laboratories of the Paris Faculty of Pharmacy.

PHARMACEUTICAL AUTHORS.—M. René Guyon, pharmacist, has published an interesting study of the *Armillaria Mellea*, a fungus which attacks very numerous species of forest trees, etc. Professor Daniel, Rennes, who has just published a little popular pamphlet on the "Medicinal Plants of Brittany" (*C. & D.*, April 19, p. 561), is an active member of the Interministerial Committee on Medicinal Plants.

ESTIMATION OF GALENICALS.—MM. Goris and Mascré insist on the necessity of a definite official standard for certain galenicals, notably the alcoholic extract of belladonna leaves and the extract of male fern. Certain results of analysis are published to illustrate the great variation sometimes found. In belladonna the percentage varied from 1.50 to 4.48. In male fern some extracts gave 11.8 of filicin, some as much as 30. The Swiss official extract, which is required to contain 25 to 26 per cent. of filicin, is not prepared by the same method.

THE LAST FRENCH BONAPARTE.—A member of the Academy of Sciences, a generous patron of many scientific institutions, the late Prince Roland Bonaparte was a well-known figure in the Parisian world of science. Compelled to resign his army career by the law of 1886, he took up the study of geography, anthropology and natural history. He collected a herbarium of three million specimens, as well as a remarkable library, to which his fellow-scientists found ready admission. One of his latest benefactions was the Bonaparte Fund for the assistance of original scientific research.

M. MAURICE SOENEN, Doctor in Pharmacy, who died at La Rochelle on April 20, was a Municipal Councillor of the old historical city, judge of the Tribunal of Commerce, Inspector of Pharmacies, Pharmacist Major of the Army Reserve, and Chevalier of the Legion of Honour. He belonged to a pharmaceutical family, one of his relatives being manager of the Lyons branch of the Pharmacie Centrale de France, and another keeping open shop at Tours. He wrote a "History of Pharmacy at La Rochelle," of which a notice appeared in the *C. & D.* (1910, II, p. 611).

M. ALPHONSE MICHEL.—The death is announced, at the age of sixty-two, of M. Alphonse Michel, for twelve years president of the French Wholesale Druggists' Association. It was thanks to his initiative that the National Office of Crude Drugs was financed by the Association, and, instead of remaining a Government committee, became an active organisation. The funeral ceremony took place in the Cathedral of Versailles. M. Léon Darrasse spoke in the name of the Association, M. Duchemin for the Union of Chemical Industries, and Professor Perrot for the Office of Crude Drugs.

PROFESSOR LUCIEN COURCHET, whose death is announced at the age of 73, was one of the oldest professors at the Faculty of Pharmacy of Montpellier, having been connected with it for thirty or forty years. He was much respected and was an excellent teacher. He took his "Superior" pharmacy diploma in 1879, qualified for an assistant-professorship in 1884, and took his D-ès-Sc. degree in 1888. He published a two-volume "Treatise on Botany" and contributed to the "Flora of Madagascar and Indo-China." He was awarded the Cross of the Legion of Honour at the time of his retirement from the Chair of Botany at the Faculty two years ago.

M. EDMOND REVEL (a qualified pharmacist) recently graduated as doctor of law with a thesis on "The Repression of Fraud and Adulteration in Pharmacy." He points out that whereas the law of Germinal 21 of the year XI merely deals with the compounding of prescriptions, the Adulteration Act of 1905 punishes adulteration independently of the question of the illegal exercise of pharmacy. He expresses the opinion that it would be preferable if pharmacy inspectors were government officials, i.e., civil servants who have qualified as pharmacists. Such a system was proposed by M. Crinon many years ago, but was unfavourably received. M. Revel also suggests that French inspectors should be relieved of purely "police" duty, such as the seizing of samples, and that their activities should be confined to the general supervision of pharmacies.

THE IMPORTANCE OF APPRENTICESHIP.—In his inaugural address to the Paris Society of Pharmacy, M. Richaud, the new chairman, severely criticised the new system of limiting the period of apprenticeship to one year. No one realised more fully than hospital pharmacists like himself, he said, the insufficient professional instruction of the new generation of "internes." If one year was enough to form a pharmacist (he thought it was not) it could only be on the condition that it was a full year of steady, practical work, at preparing ampoules or suppositories, instead of at the polarimeter or in the research of acetonc bodies in urine. Pharmacists who took apprentices should remember the young men had four years' scientific and theoretical work before them at the Faculty and should compel them really to learn practical manipulation, counter work, dispensing, the use of current medications, to make up remedies, fix prices, etc.—things they cannot pick up in the University. The young fellows are usually keener to prepare for examinations than to do shop work, and it must be added that the pharmacist (possibly fearing their errors) is apt to keep them in the background; for instance, only to put them on duty on the regular assistant's day off. Certainly an untrained assistant is a nuisance. Our ex-employers (added M. Richaud) thought the same, but they accepted the nuisance because they knew it was but temporary and would steadily diminish as the apprentice progressed. M. Richaud feared that the future of French pharmacy was more or less imperilled by this ill-timed revision of the curriculum.

PASTEUR AND PHARMACY.—The Society for the History of Pharmacy has published M. Sergent's notes on "Pasteur and Pharmacy." He shows us Pasteur studying for his B.Sc. at Besançon, and coming into contact with M. Desfossé, professor of chemistry at the local School of Pharmacy. Local tradition asserts that it was here that Pasteur familiarised himself with chemical apparatus; others hold that the future great chemist called but once at the pharmacy in the Rue des Granges, and never cared to make a second visit. At any rate, the legend, true or untrue, of "Pasteur behind the pharmacy counter" rests on this Besançon incident. When Pasteur came to Paris he became acquainted with Balard, who had been a pharmacist, and with J. B. Dumas, who had served as an assistant, though he never qualified. In 1846 Pasteur was appointed assistant professor and worked in Balard's laboratory when he was preparing his thesis on arsenious acid and the arsenites of potassium, sodium, and ammonia; which, remarks M. Sergent, was quite a pharmaceutical subject. In 1849 he went to the Strassburg School of Pharmacy as assistant professor. During his stay there his colleagues petitioned the Minister that he should be allowed to act as examiner in pharmacy, but the request was refused on the grounds that Pasteur was not a qualified pharmacist. He therefore lost the extra 500 francs he would thus have gained, and which he then sorely needed. When he asked the Director of the School for asparagin his request was refused, no money being available for this purpose, and he had to grow the plants and extract the substance necessary for his studies. It was at Strassburg that Pasteur became acquainted with Béchamp, the pharmacist, afterwards an implacable adversary of his doctrines.

American Notes

By "The Man from London."

DRUG STORES RAIDED FOR LIQUOR.—Federal prohibition agents, reinforced by several narcotic officials, swept down recently upon twenty drug stores in New York City. They seized four truckloads of liquor valued at between \$100,000 and \$150,000, and took forty-five prisoners. The raids, the result of numerous complaints to the Prohibition Commissioner, took place in the afternoon. In one store the agents found hundreds of physicians' prescriptions, 'properly filled out, but dated thoughtfully up until July 16.

REGULATION OF HYPNOTICS.—The Bureau of Food and Drugs, New York City, reports a new section of the Sanitary Code has been adopted which regulates the sale of veronal, veronal sodium, luminal, luminal sodium, sulphonal, trional and tetronal, and these can now only be sold retail upon the written prescription of a duly licensed physician. During 1922, 945 applications for the registrations of internal and external medicines were received and examined with a view of protecting the public against fraudulent remedies. Thirty-one applications were refused. A large number of patent medicines relating to croup, cancer and lung troubles which carried misleading statements on their labels were investigated, and some of the manufacturers forced to eliminate such claims, and others to withdraw their medicines from the market.

PRESCRIPTION CHARGES IN AMERICA.—The following is a schedule of prescription prices charged in the U.S. :—

LIQUIDS, MINIMUM CHARGE

Quantity	One drop dose	Two to four dram dose	Tablespoonful
$\frac{1}{2}$ oz. ...	0.55	0.50	0.50
1 oz. ...	0.65	0.65	0.50
2 oz. ...	0.75	0.75	0.65
3 oz. ...	0.85	0.85	0.75
4 oz. ...	1.00	1.00	0.90
8 oz. ...	1.50	1.50	1.25

TABLETS, PILLS AND LOZENGES (not hand-made)

	One cent	Two to four cent	Tablet
12 or less ...	0.55	0.50	0.50
13 to 24 ...	0.75	0.75	0.50
25 to 50 ...	1.00	1.00	0.65
51 to 100 ...	1.50	1.25	0.75

GERMANY'S CHEMICAL MONOPOLY GONE.—According to a report by the Federal Trade Commission, the destruction of Germany's monopoly over the dye, drug and chemical industries is attributed to the wartime action by which American enterprises were licensed to use the patents, trade-marks and copyrights owned and controlled by Germany. Through the licensing system, made possible by the wartime legislation, the United States is producing an adequate supply of essential drugs, dyes and chemicals generally. When the United States entered the war Germany was supplying this country with about 2,000,000 doses of salvarsan, and the small quantity held here ranged in price from \$3.50 per ampoule, or dose, upward to \$10.00. Now arsphenamine, or salvarsan, is produced in America at prices ranging from \$1 per ampoule to the public, to 13 cents, the price the Government is supplied. Of the ninety-three licences issued by the Commission under the law, seventy-two are still in effect, only twenty-one having been cancelled or otherwise terminated. The Commission reports the receipt of \$1,000,153.60 in royalties, representing 5 per cent. of gross sales under each licence granted. This money constitutes a trust fund against which 125 suits are pending, brought by the owners of the licensed patents, trade-marks and copyrights.

HEROIN AND DRUG ADDICTION.—Some of the leading physicians, criminologists and judges of the United States gathered recently at Washington and made alarming reports as to the seriousness of heroin addiction in this country. It was generally agreed that this morphine derivative habit is one of the most serious problems confronting America to-day. Heroin is at once the drug of youth and of crime, as Dr. A. Lambert, of Bellevue Hospital, says that addiction occurs most frequently between the ages of sixteen and twenty-two. Prison statistics show that since 1917 the yearly number of drug

victims admitted to Sing Sing has increased over a thousand per cent., and practically all of them were users of heroin. The druggists in the retail trade are not held in any way responsible for this state of affairs. The bootleggers carry narcotic drugs as a side line, and the heroin business seems to be well organised. This drug is manufactured largely in America as a legitimate drug, and an effort is to be made to tax this source of supply out of existence. It is estimated by the Internal Revenue Department of the United States that \$21,000,000 are spent in the legitimate traffic of narcotic drugs every year. The average cost to the drug addict of his favourite "dope" is said to be \$60, and thus, on the basis of one million addicts in this country, shows there is the enormous sum of \$60,000,000 spent every year in this way. It may be stated that this is a low estimate.

South African News

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province

BUSINESS CHANGE.—Mr. E. Colwin, late of Bones & Co., Ltd., Pretoria, and Lennon, Ltd., Rhodesia, has opened a pharmacy in De Aar under the name of Colwin & Harries. De Aar is the most important railway junction in the Cape Province, and being equidistant from Cape Town and Johannesburg, affords an excellent opportunity as a distributing centre for agencies.

ASSOCIATED PHARMACEUTICAL SOCIETIES OF SOUTH AFRICA.—A conference of delegates from the various Pharmaceutical Societies and Chemists' Associations was opened at Cape Town on April 17. Mr. D. Dale (President) was in the chair, and the following delegates took part :—Messrs. Clancy, Hughes, Asher, Linley, F. Mathew (Cape Province Pharmaceutical Society), Spruyt (Transvaal Pharmaceutical Society), Sleggs (Natal Pharmaceutical Society), Murray (Durban Chemists' Association), Couldridge (Port Elizabeth and District Chemists' Association), Dutton, McJannet (Eastern Districts Pharmaceutical Association), Paterson (Grahamstown Chemists' Association), and Cooper (Kimberley and Northern Districts Chemists' Association). A report of the conference is in course of preparation and will be sent to all members of the various societies by the Secretary, Mr. Cassel.

PHARMACEUTICAL SOCIETY'S DINNER.—The Pharmaceutical Society of Cape Province, held a dinner at the Opera House, Cape Town, on April 17, in honour of the delegates attending a conference of the Associated Pharmaceutical Societies of South Africa. The President (Mr. Clancy) was in the chair, and in proposing the toast of the Association dwelt eloquently on the good work which had been accomplished by the new body, although less than a year old. Mr. D. Dale, in responding, detailed the many efforts made by the Association on behalf of the chemists, and hoped the time was not far off when every registered chemist in the Union would be an active supporter of one or other of the Societies forming the Association. Mr. T. J. Hughes proposed the health of "Our Guests," to which Mr. G. Darroll (Cape Pharmacy Board) and Mr. P. J. Spruyt responded. Mr. A. Paterson proposed the toast of the Cape Society, Mr. F. Mathew responding. All the speakers mentioned the Medicine Stamp tax with "much feeling." A musical programme was provided under the direction of Mr. Cou. Morris. The dinner was attended by most of the Cape Town pharmacists, whilst many travelled long distances to be present. The affair was voted the most successful pharmaceutical function held in Cape Town for some years.

Transvaal

MEDICINE STAMP TAX TO GO!—In the course of a speech at Pretoria, on April 23, outlining the policy of the South African Party, in view of the forthcoming General Election, General Smuts said :—"We look forward to the prospect of remitting taxation next financial year, and the first tax to go will be the medicine tax."

Legal Reports

Labelling Poisons.—At Whitechurch, Salop, on April 25, Charles W. Hubbard, drug-store proprietor, Clay Pit Street, was fined £1 and £2 2s. costs for selling carbolic disinfectant and belladonna plaster without labelling them with the name and address of the vendor. Defendant said the disinfectant should have been sent of a strength below the Pharmacy Act limit and that the belladonna plaster was sold by an assistant who had since left his employ.

"Long-firm" Frauds.—After a trial lasting nearly four days at the Central Criminal Court, London, sentences were pronounced on May 8 in the case against Nathan Novodvorsky, Morris Ross and Joseph Levene, who were found "Guilty" on charges of conspiring together (Levene being acquitted on one count) to defraud such persons as might be induced to part with goods to the Butler Street Warehouse Co., Ltd., and with other offences (*C. & D.*, May 10, p. 649). Mr. Percival Clarke, for the prosecution, said that there were two other charges against Ross and Novodvorsky, and Detective-Inspector Stubbings proceeded to give a detailed history of the careers of the three defendants. The judge, addressing Novodvorsky, said that the only thing in his favour was his youth. Having regard to his age, he would be imprisoned for six months with hard labour. Ross was at the bottom of these frauds, and must go to prison with hard labour for twelve months. Levene was sentenced to nine months' imprisonment with hard labour.

Purified Borax.—At Wealdstone Magistrates Court, Middlesex, on May 13, Mr. A. E. W. Hawkes, chemist and druggist, High Road, Wembley, was summoned under Sec. 6 of the Sale of Food and Drugs Act, 1875, for selling to the prejudice of the purchaser purified borax not of the nature demanded, the Middlesex County Analyst having certified that the article sold was borax containing 80 parts of arsenic per million, whereas, according to the British Pharmacopœia, purified borax should not contain more than 5 parts of arsenic per million. Mr. R. A. Robinson prosecuted, and defendant, who pleaded guilty, was represented by Mr. Hildreth Glyn-Jones, instructed by Mr. Cyril Kirby. Mr. Robinson stated that the article demanded was purified borax, and the purchaser was entitled to receive purified borax answering to the requirements of the British Pharmacopœia. He did not allege or suggest that the quantity of arsenic present in the sample would harm anyone, but commercial borax and purified borax were different things, and when purified borax is asked for commercial borax must not be sold. For the defence, Mr. Glyn-Jones admitted the facts and stated that it was by mistake that a few 4-oz. packets had been filled with commercial borax instead of purified borax. Mr. Hawkes had a stock of the latter bought with a warranty from a well-known wholesale firm, but evidently this purified borax had not been sold to the inspector. Mr. Glyn-Jones suggested that a conviction should not be recorded. The Bench stated that they were prepared to believe the explanation given, but there must be a fine of £1, with 15s. costs.

Gillette Razor Blades.—In the Chancery Division, on May 9, before Mr. Justice Astbury, the Gillette Safety Razor Co. and Gillette Safety Razor, Ltd., applied for an injunction to restrain Alec. Louis Freedman, trading as L. Franks, Whitechapel Road, from passing off second-hand Gillette razor blades as genuine Gillette blades. Mr. J. H. Evans-Jackson, for the plaintiffs, said defendant appeared to have collected used razor blades and, after resharpening them, offered the blades for sale as genuine Gillette blades at a price below that at which the genuine blades were sold. Defendant advertised in *THE CHEMIST & DRUGGIST* and other newspapers "genuine U.S.A. Gillette razor blades" at prices varying from 2s. 11d. a dozen for small quantities to 2s. 3d. a dozen for 200 dozen. A number of persons made affidavits that they had bought blades in reply to the advertisement. The blades which were received by them were done up in waxed paper similar to that in which the genuine blades were enclosed, but the blades themselves had evidently been used, or were old and rusty. The defendant, an infant, was represented, on the application of the plaintiffs, by the Official Solicitor as guardian. Mr.

Justice Astbury said that the plaintiffs were moving to restrain what was an obvious fraud. The defendant was a youth, who apparently looked forward to becoming a prosperous trader, and was conducting a grossly improper business. The plaintiffs, a well-known company, sold their razor blades in packets at 4s. 6d. a dozen, in envelopes surrounded by a protective covering of waxed paper adhering to the blades. The defendant collected second-hand used or unusable blades, which had been thrown away, and put them in the plaintiffs' envelopes, covered with waxed paper. These he sold at prices varying according to quantity, from 2s. 3d. to 2s. 11d. a dozen. Having regard to the plaintiffs' policy that their blades should not be resharpened, he held that "genuine" blades meant that the blades sold by the defendant were proper first-hand blades. The plaintiffs might suffer a great disaster if these blades were used in the belief that they were the genuine blades of the plaintiffs. He granted an injunction to restrain the defendant from selling or offering for sale as genuine Gillette razor blades any second-hand used or unusable razor blades of the plaintiffs' manufacture, or from passing off second-hand used or unusable razor blades of the plaintiffs' manufacture as genuine or first-hand razor blades of their manufacture. The Official Solicitor, with the approval of the Judge, consented to the motion's being treated as the trial of the action.

Shellac Contract Dispute.—In the Court of Appeal, London, before Lords Justices Bankes, Scrutton, and Atkin, on May 13, the case of Dunlop Brothers & Co. against E. D. Sassoon & Co., Ltd., was heard upon the appeal of the plaintiffs (of 49 Fenchurch Street, E.C.) from the judgment of Mr. Justice Bailhache in the Commercial Court in favour of the defendants, who carry on business at 17 St. Helen's Place, E.C. (*C. & D.*, January 19, p. 77, and January 26, p. 114). Mr. Rayner Goddard, K.C., and Mr. M. Hilbery appeared for the appellants, and Mr. MacKinnon, K.C., and Mr. Le Quesne represented the respondents. Mr. Rayner Goddard having stated the facts and read the material documents, said the certificate of the arbitrator was pleaded against the plaintiffs as being binding on them, and the defence set up was that the certificate was binding on all parties, and that the plaintiffs could not bring the action for breach of contract because the certificate was binding. It was agreed on all hands in the course of the case that no expert, however skilful, could say whether shellac contained 3 or more per cent. of resin without analysis. The certificate did not say whether the sample contained more than the proper amount of adulterated matter. What the arbitrators had to decide were two things, and not one, and if they decided only one then he (counsel) contended that the award was bad. It was for the arbitrators to apply their minds to the question whether the 3 per cent. of adulterated matter had been exceeded or not. Although the present case only involved a sum of £36, the question of principle involved was important as affecting many other cases. Lord Justice Atkin said the arbitrators had not by their certificate purported to state what the dispute was. They were not bound to set out every term of the dispute, and what they had done was simply to make an award as to quality. Without calling upon counsel for the respondent, their lordships dismissed the appeal with costs.

JUDGMENT

Lord Justice Bankes, in giving judgment, said he did not think it lay in the mouth of anyone to say that the arbitrators had not dealt with all the matters it was necessary for them to decide before they gave their certificate, and which was before any dispute had arisen. In substance he agreed with the judgment of Mr. Justice Bailhache, but he would like to add that in order to avoid that kind of dispute in the future the form of certificate should be altered in order to make it more in conformity with the facts. The other members of the Court concurred. Mr. MacKinnon said he had not had an opportunity of addressing their lordships, but he would like them to know that the particular form of certificate had been in use for twelve years without any dispute before.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

G. ARNOLD & Co., LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, etc. The directors are: G. A. Grynberg and F. F. Davenport. R.O.: 82 Mark Lane, London, E.C.

LONDOVUS, LTD. (P.C.).—Capital £1,000. Objects: To acquire the trade-mark and goodwill of Londovus Vermin Exterminator, etc. The directors are: H. F. Wareham and A. A. Coombe. R.O.: Wansey Street Works, Wansey Street, London, S.E.17.

JOSEPH REED, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a manufacturing chemist lately carried on by Joseph Reed at 7 Turkey Lane, Manchester, as "Joseph Reed." The directors are: Elizabeth Reed, S. A. Reed, and A. Reed. R.O.: 7 Turkey Lane, Harpurhey, Manchester.

R. H. BEARDMORE, LTD. (P.C.).—Capital £300. Objects: To acquire "The Pharmacy," 427 Mill Street, Liverpool, and to carry on the business of chemists, druggists, drug-store proprietors, etc. The directors are: R. H. Beardmore, Mrs. E. M. Beardmore, and A. Albright. R.O.: 427 Mill Street, Liverpool.

GREENBANK PHARMACY, LTD. (P.C.).—Capital £100. Objects: To take over the Greenbank Pharmacy, 57, Glynne Street, Farnworth, Bolton, and to carry on the business of chemists, druggists, drug-store proprietors, opticians, etc. The directors are: Mrs. A. A. Hodgkiss and L. Hodgkiss. R.O.: 57, Glynne Street, Farnworth, Bolton.

ISABEY SYNDICATE (ENGLAND), LTD. (P.C.).—Capital £3,000. Objects: To adopt an agreement with Société Parisienne d'Essences Rares et de Parfums, and to carry on the business of general merchants, purchasing agents, factors, etc. The directors are: Capt. J. D. Cohn, Major R. G. C. Glyn, Lt.-Col. C. C. Macdowell, and J. MacCallum. R.O.: 12 John Street, Bedford Row, London, W.C.1.

LE PAGE'S GLUE Co., LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in glues, adhesives, paste, mucilage, and similar articles, inks, oils, varnishes, soaps, polishes, oleaginous and saponaceous substances, etc. The directors are: N. C. Phillips, C. J. Salmon, A. E. Young, A. G. Brooks, and J. F. MacPhee. R.O.: 4/10 Hatfield Street, Goswell Road, London, E.C.

BLEACHODENT DENTAL LABORATORIES.—Filed, pursuant to Section 274 of the Companies (Consolidation) Act. Capital £30,000 in 100 shares. Incorporated in New York, U.S.A., on September 10, 1923, to carry on the business of manufacturers of preparations for cleaning and preserving teeth, dental supplies, etc. The British address is 14-16 Regent Street, London, S.W.1, where G. Thomson is authorised to accept service of process and notices on behalf of the company.

BOUDOIR LUXURY Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and agents for the sale of perfumery and toilet goods, soaps, creams, ointments, unguents, hair dressings, washes, restorers, pomades, dyes, cosmetics, skin preparations, and toilet requisites of all kinds, importers of and dealers in photographic instruments, apparatus and requisites, brushes, combs, sponges, cutlery, tooth pastes and powders, mirrors, silver and plated articles, and leather and fancy goods, chemists, druggists, etc. The directors are: J. Van Praagh and Mrs. H. Williams. R.O.: 45 Upper Baker Street, London, W.1.

CONSOL PRODUCTS, LTD. (P.C.).—Capital £20,000. Objects: To adopt an agreement with E. W. Elliott, and to carry on the business of manufacturers of essences, cordials, powders, extracts and flavouring materials, syrups, aerated waters and beverages, and of soda fountains, syphons, bottles, glasses, glassware and earthen-

ware of all kinds, manufacturers of and dealers in ice-breaking machinery, ice-cream plant, refrigerating plant, carbonic acid gas or other gases and liquids of all kinds, and appliances and machinery used in connection with the manufacture, storage or distribution of gases or liquids, distillers of flavouring essences, perfumery and essential oils, manufacturing chemists, compounders and engineers, manufacturers of and dealers in apparatus for the aeration or bottling of liquids, etc. The directors are: E. B. Barnes, G. H. Brown, E. W. Elliott, and D. M. Sutherland. Solicitors: Wansey, Stammers & Co., 52 Coleman Street, London, E.C.2.

HAMIRA & Co., LTD.—B. Nash, 145 Whitfield Street, W.1, was appointed receiver on April 25, 1924, under powers contained in debentures dated January 25, 1923.

LONDON CHEMICAL WORKS, LTD.—At a meeting held at Southall, on May 5, it was resolved that this company be wound up voluntarily. Mr. H. Macrae, Kingsway House, Kingsway, London, W.C.2, was appointed liquidator, and a meeting of creditors will be held at the Chartered Institute of Secretaries, 59a London Wall, E.C.2, on May 26. — The petition of Henry Ellison, Ltd., manufacturing chemists, for the compulsory winding-up of the London Chemical Works, Ltd., was again before Mr. Justice Romer in the Companies' Winding-up Court on May 13. Mr. Stamp, for the petitioners, said that the respondent company went into voluntary liquidation after the petition was presented, and he now asked that the petition should be adjourned for a further fortnight in order that the views of the creditors should be ascertained at the meetings of the voluntary liquidator was calling. The application was granted.

Bankruptcy Reports

Re Ralph Edward Victor Lloyd, 23 Lake Road, Portsmouth, herbalist.—Among the creditors in this failure (*C. & D.*, May 10, p. 650) are the following:—London Rubber Co., £15; Potter & Clarke, Ltd., £20; Surgical Truss and Belt Co., £12; Jas. Tomkins & Co., Ltd., £16; Winchester Manufacturing Co., £17.

Re Hedley Castle, sometime known as Hedley Cassell, late trading as Hedley Cassell & Co., Elm Tree Avenue, West Bridgford, patent medicine manufacturer and vendor.—The first meeting of the creditors was held on May 1 at the Nottingham official receiver's offices. The statement of affairs showed liabilities £2,186 7s. 8d., against assets £74 10s. Debtor attributed his failure to loss on speculation in property, heavy claims for excess profits duty and income-tax, losses by betting, decline in trade and extravagance in living. It appeared that he formerly assisted his father in making patent medicines, and in January 1919 he commenced to make up and sell similar medicines on his own account at Francis Street, Nottingham, removing a few weeks later to his present address. He had no capital, and borrowed £100 from a money society, which he used for initial expenses, and in October 1922 he purchased the freehold of the premises for £1,200 with money raised almost entirely on mortgage. He had advertised extensively a certain patent medicine for which he had considerable sales, yielding a big margin of profit, but he had lived extravagantly, betted and gambled. He became aware of his position in October last. He had been considerably pressed by creditors recently, and sold various articles of furniture, a motor-car and a wireless set to raise funds. A few weeks before the receiving order he disposed of the business for £50 to his father, to whose premises the effects were removed. The public examination was held on May 8 at the County Court House, St. Peter's Gate, Nottingham. The statement of affairs showed liabilities of £2,155, and there were no assets. Debtor admitted that he had been betting, and said that since 1921 he had lost over £1,000 in betting and book-making. He was ordered to file a cash account for the past two years, and the examination was adjourned.

Dental Board Prosecution

At Bow Street Police Court, London, on May 3, before Sir Charles Biron, Aseplené, Ltd., 33 Bedford Street, Strand, W.C., were summoned for carrying on the business of dentistry in contravention of the Dentists Act, 1921, and John Garibaldi Sparkhall, sole director of the company, was summoned for practising as a dentist without being registered under the Dentists Act, 1878. The proceedings on April 30 were reported in the *C. & D.*, May 10, p. 652.

Case for the Defence

When the case was resumed, on May 3, Mr. Van den Berg addressed the Court on behalf of the defendants. He found, he said, that there was no legal decision bearing on the case other than the case cited at the previous hearing. While he was quite prepared, if the necessity arose, to call evidence to support his contention, he submitted that the prosecution had not really made out any case which called for an answer. It was said that Mr. Sparkhall and the company had contravened Section 5 of the Act in that he was alleged to be practising dentistry and was not registered. The case was of the utmost importance to Mr. Sparkhall. Not only was his living at stake, but the best part of his life had been devoted to the study of this question, and his work had been a great boon to the public. Evidence could be adduced that he had cured people of that terrible disease pyorrhœa, where everybody else had failed. It was alleged that he was practising dentistry, but his establishment had always been called a clinic, and there was nothing whatever in it that would justify anyone in drawing a comparison between it and a dental surgery, otherwise than the presence of an oroscope set, which was generally used by doctors. Mr. Sparkhall was not practising dentistry, but his cure related to medicine. No doubt it was determined by the legislature that everything connected with artificial teeth should be left entirely to registered dentists. There was no evidence that Mr. Sparkhall performed any dental operation. A dental operation was on the mouth, whereas all that he did was to give some liquid to take internally. The Magistrate: That is treatment and advice. Mr. Van den Berg said to bring him within the section there must first of all be an operation. The Magistrate: On my reading of the Section, if I am satisfied that he gave treatment or advice I should certainly hold that that brought him within the Section. All these things are included in the definition which makes the practice of dentistry. It says all these things jointly, or either of them, constitutes dentistry. Mr. Van den Berg suggested it was common knowledge that, if you went to a dentist, he would ask what tooth-paste you used, and if you named one kind he would say you had better use another. That was advice. If the contention of the prosecution was correct, it would mean that if he went to a chemist and said, "What tooth-paste do you recommend?" and he recommended, say, thymol, the chemist would be practising dentistry. The Magistrate: Oh, no. People buy tooth-paste not to cure toothache, but to clean their teeth.

THE CONSTRUCTION OF A SUBSECTION

Mr. Van den Berg said his next submission was that there was no case to answer here because under Section 14 (2) the advice and treatment must be such as a dentist usually gave. And the evidence here was that the advice which a dentist usually gave was advice involving extraction of teeth. The Magistrate: Oh, no. The whole object of dentists now is not to extract teeth, but to keep them in your head—to stop them and all sorts of things. Mr. Van den Berg: I am talking about pyorrhœa. Where you have pyorrhœa, and go for advice and treatment, the only cure known to dentists is extraction. The Magistrate: Oh, no, it is not so. They only pull your teeth out as a last resort. Mr. Van den

Berg said that the great difference between Mr. Sparkhall and the dental profession was that he took the view that pyorrhœa could be cured without teeth extraction. It was not suggested that any dentist used Aseplene. That was an invention of Mr. Sparkhall's, and one which he alone used. The way in which he cured pyorrhœa, which was by the administering of medicine, was something individual, and only known to himself. Therefore it would follow that his treatment and advice could not be "treatment or advice which is usually given by dentists." The Magistrate: The words "usually performed or given by dentists" mean the treatment usually given for pyorrhœa—not the particular remedy. A dentist might discover an entirely new treatment to-morrow. He would still be practising—still giving the treatment and advice usual to dentists. Mr. Van den Berg: It must happen time and again that a person goes to a doctor and says: "I have got some complaint and I am suffering pain." The doctor, in order to tell whether the man is suffering from organic disease, or from his teeth, examines his teeth and finds they are defective, and sends him to a dentist. He has made an examination, and if my learned friend's argument is right that an examination is sufficient apart from an operation, then it must be undisputed that the medical practitioner, in merely carrying through his ordinary practice, has committed an offence by "practising dentistry." The Magistrate: But then he would not be giving treatment. Your client does give treatment. He gives this mysterious remedy. I appreciate your point, but upon it I am against you. Mr. Van den Berg said it was true that his client was not qualified in the sense of being a registered dentist, but he had devoted a good deal of study and attention to matters of this kind from his youth up. He (counsel) wanted to show what his qualifications were and the sort of gentleman they were dealing with, because it had undoubtedly been suggested that he was a quack and that this stuff he sold was not a genuine medicine for the cure of disease at all. His work at South Kensington was so good that Mr. Buckmaster, the father of the present Lord Buckmaster, enabled him to go to Guy's Hospital, and he continued his studies there in the anatomical museum. It was only because his father had not the means to enable him to qualify that he did not become a fully-qualified doctor or dentist. He would like to refer very shortly to two or three letters from people Mr. Sparkhall had cured. The Magistrate: What nonsense! There is not a known malady for which there isn't an absolute cure advertised every day in the papers. Mr. Van den Berg: I have a number of witnesses here to speak to the same effect.

A DISCUSSION ON QUACK MEDICINES

The Magistrate: The only incident we have before us is the remarkable case of Mr. Ware, who was told he was suffering from pyorrhœa and bought and paid for a bottle of this mysterious remedy, and then discovered he had not got pyorrhœa at all. Supposing he had got pyorrhœa, and had drunk a bottle of this mysterious remedy, of course he would have written an enthusiastic letter saying he was cured. I don't know anything about this stuff, and we cannot devote the time of the Court to advertising it. The question is whether the defendant has "practised as a dentist." Mr. Van den Berg: I thought it might be convenient to read these letters and call people of real substance and standing. The Magistrate: Oh, no. Some of the most intelligent people who ever lived have believed in quack remedies. My most distinguished predecessor, Henry Fielding, killed himself through them. Most people of imagination do believe in quack medicines. Mr. Van den Berg: I have a witness here who had every tooth out and still had pyorrhœa, and could not get cured, and then came to Mr. Sparkhall and he cured her. She is here to say so. The Magistrate: The secret why people sell quack medicines and make fortunes is that if you have got a disease either you are cured or you die. If you take a quack medicine and are cured and don't die you attribute it to the medicine. Read your paper

to-morrow about all those people who have been to doctors for years without getting any benefit, and then suddenly drink a bottle of something and get mysteriously well. If your client treats people for pyorrhœa he had better take out a certificate as a dentist. Mr. Van den Berg: If he had the necessary qualification he no doubt would do so. Unless you read the Section in the enormously wide sense that the mere giving of advice is practising dentistry, I submit that the prosecution have failed to make out their case.

MR. SPARKHALL'S EVIDENCE

Mr. Sparkhall then entered the witness box and gave evidence on his own behalf. He said he was not a registered dentist. When at school he got certificates from the South Kensington Board of Education. He did a great deal of dissection work. He attended evening lectures at the London Polytechnic, and got a number of scholarships which enabled him to attend a course at Cambridge for five years. He had devoted most of his time to the study of pyorrhœa and septic diseases. He was in a position to produce a large number of original letters from people of all classes testifying that he had cured them. Quite a hundred were from people of title. The Magistrate: What do you argue from that? Witness: It indicates that they are not the sort of people likely to be imposed upon like the ordinary washerwoman. The Magistrate: That is a matter for argument. Continuing his evidence, Mr. Sparkhall said that Bacterol was a well-known disinfectant invented in Italy, and had been sold in this country for quite twelve years. It could be bought in any chemist's shop. It was a disinfectant, not a medicine. It was used in the most delicate brain surgery. Mr. Hallett: I know that this gentleman is a director of Bacterol. Witness, resuming, said Aseplene was a variant of Bacterol. In his estimation it was an improvement on the Bacterol disinfectant. The composition of it was secret. There was formaldehyde in it, but it was changed. A medical man would know that formaldehyde could not be used on the human body, but it was because the formaldehyde had been so modified and improved that it could be used in the most delicate brain surgery with success. There were over twenty different substances in Aseplene. Iodine was in it. He superintended the manufacture of Aseplene. The only dental things in his clinic were the oroscope (mirror and electric torch) and the spittoons. When people came to him for consultation he charged £3 3s. The only other charge was for the disinfectant. If it was a case of pyorrhœa alone, that would be 10s. It was very rarely a person came to him with pyorrhœa alone. Counsel: So for £3 3s. and 10s. a month they can get your cure?—Yes, it is the cheapest investment anybody can make. The Magistrate: If they are cured.—I am so certain that I guarantee to cure every case I undertake. If I did not cure I should refund the money. Witness, continuing, said he never treated teeth at all. He always advised patients to go to a dentist to have their teeth attended to. In his clinic every patient had to be prescribed for individually. The sensitiveness of some people was much greater than others. When they came to him they sat in an ordinary office chair. There was no dental department. He asked his patients a good many questions. The Magistrate: And examine the mouth?—I examine the mouth to see what is the condition of the gums and so on, and it all depends upon what I find the matter with them what is the strength of the disinfectant I give. The Magistrate: Have you any cure to give except this mixture?—No. We give them this disinfectant to drink. There, again, it depends on the sensitiveness of the stomach. After that they use it as a mouth wash and retain it in their mouth a certain time during the day. Dr. Gabell said nothing could penetrate the tissue, but our stuff penetrates through the gum tissue right into the bone socket. Nature does the rest. In reply to Mr. Van den Berg, witness said that in his view pyorrhœa was a disease of the gums and nothing to do with the teeth. Counsel: Have you had cases in which people have had all their teeth taken out and

still had pyorrhœa?—Yes, I have had many cases. Two cases in which the teeth had been out for twenty years and pyorrhœa still persisted. You regard your clinic more in the nature of a medical place than anything else?—Always have done so. I never had the slightest idea of anything else. I want to make it clear that my treatment and my method is not that usually given by dentists. It is a secret process known only to me, and I am the only one who can give it. Cross-examined, witness said he had been the director of the company since its inception. He started it in March 1920. Witness was questioned at some length about the statements in his pamphlet, some of which, Mr. Hallett contended, showed that witness knew perfectly well that people went to a dentist to have the existence or absence of pyorrhœa diagnosed. Mr. Van den Berg said the only other evidence he wished to call—and he would be guided entirely by the magistrate—was the evidence of the people who were treated at the clinic. The Magistrate: I don't think that is relevant. Mr. Van den Berg: I bow to your ruling. Perhaps it is sufficient for me to say I could call a number of people, and the effect of their evidence would be that they were cured by Aseplene after doctors and dentists had failed.

Decision

The magistrate said that, in his view, the defendant came within the Section which defined the practice of dentistry as the giving of any such treatment, advice, or attendance as was usually performed by dentists. Mr. Ware's case was conclusive. He went there, he had treatment, his mouth was examined, his teeth were tested, and he was prescribed for. Mr. Sparkhall said he was a great benefactor because he cured people of pyorrhœa. Well, all he had got to do was to advertise his mysterious liquid and people could cure themselves of pyorrhœa without the slightest trouble. What he must not do was, he must not practise dentistry, which he was doing, if he was not registered. This had evidently been going on for some time, and his worship regarded it as a serious case. He would deal with the defendant for practising dentistry, and there would be a fine of £50 and £10 10s. costs on the summons against the company, and on one of the summonses against Mr. Sparkhall. Mr. Van den Berg: You will appreciate the case is one of the greatest importance to Mr. Sparkhall as it involves his livelihood. My learned friend has admitted it is a novel case, which depends on the construction of the Section, and we are anxious to take the opinion of the higher Court upon the point. The Magistrate: Very well, I will state a case if you like. On May 6 sureties were entered into for the prosecution of an appeal against the magistrate's decision.

A CORONER ON LYSOL.—At the conclusion of an inquest held recently at Greenwich on the body of a labourer's wife who was found to have committed suicide by taking lysol, the coroner remarked: "I wish people would not keep lysol in the house. I get more deaths from lysol than all other disinfectants put together." He added that lysol looked a fascinating thing, more like a syrup than a disinfectant. It was much better to get a nasty-looking disinfectant.

CHANGES IN FACIAL CHARACTERISTICS.—Lecturing in London, on April 29, under the auspices of the Dental Board, Sir Arthur Keith said that the following was a list of some of the changes in facial characteristics in modern times:—(1) The teeth twelve millimetres below the teeth of primitive peoples; (2) a contracted palate; (3) downward growth of the cheekbone; (4) appearance of a sharp ledge of bone between the teeth and the nose; (5) the teeth sinking backwards; (6) the growth of more bone from the lower jaw. "These changes," declared Professor Keith, "are not only among the most remarkable in the human body, but they are not anything like finished." The lecturer added that far from the contracted palate being a sign of stupidity, a man with a contracted palate was often more intelligent and more courageous than another man.

Pharmaceutical Botany

LVII. Labiatæ—Lavender—Rosemary

THE *Labiatæ* is a very successful natural order which is spread all over the globe, but with its chief centre in the Mediterranean, the original home of lavender and rosemary cultivated in our gardens for their sweet-smelling flowers and leaves. The members of the order are very similar in habit, being herb or undershrubs, with stems usually square and bearing simple exstipulate leaves opposite to each other and arranged in pairs at right angles (decussate). The leaves are often hairy and with epidermal oil glands. The flowers are borne on the axils of bracts and are usually crowded together. The central flower opens first and then others on either side (i.e., cymose), these inflorescences on opposite sides of the stalk may overlap and appear completely to encircle



FIG. 182.—*LAVANDULA VERA*

the stem, and this false whorl is known as a verticillaster. The flower departs little from the pentamerous condition, the commonest floral formula being $K(5), [C(5), A_4], G(2)$. The "zygomorphic" tendency predominates through the labiate flower, even the tubular hypogynous calyx being at times two-lipped instead of the usual tubular shape. The evolutionary increase in two-lipped characteristic of the labiate corolla has already been illustrated (Fig. 90, Article XXVIII). Nearly all indication of individual petals has been lost. There are generally four stamens arranged in unequal pairs (didynamous) on the corolla tube (epipetalous). The two-celled ovary surmounts a nectiferous disc, being distinctly four-lobed with a basal style (with bifid stigma) arising from the centre thereof. There is evidence also of that reduction in seed production per ovary which follows upon certainty of pollination. There are only two ovules to each carpel, and quite early a partition forms, dividing

the fruit into four one-seeded nutlets, which are enclosed in the persistent calyx. [This type is also found in the *Boraginaceæ*, which, however, has a rotate corolla and five stamens.]

The *Labiatæ* contain a number of plants of pharmaceutical interest. Few of these are medicinal (pennyroyal and peppermint), but many are aromatic (lavender,

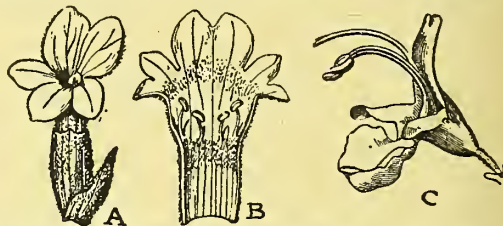


FIG. 183.—A. Flower of Lavender showing hairy calyx tube and bilabiate corolla. B. Corolla of same opened out with didynamous stamens inserted thereon. C. Flower of Rosemary with erect upper lip and pendulous lower acting as landing stage.

patchouli, rosemary), or potherbs (sage, mint, thyme), while yet others are favourite herbal remedies (skullcap and horehound).

The Common Lavender (*Lavandula vera*) is a shrubby plant not native to this country (see above), but which grows well in the open when cultivated, when it attains



FIG. 184.—*ROSMARINUS OFFICINALIS*

a height of about two feet, and flowers in July or August. The ascending branches are more rounded than is usual in the *Labiatæ*, being striated rather than square. The leaves are linear with entire margins, and when young are hoary with hairs and have turned-under edges (revolute). The flowers are borne in clusters on a long stalk, and the inflorescence resembles a lax spike

of six to ten whorls or verticillasters, with a much wider gap between the two lowest than those above. The bluish violet calyx is tubular and ribbed. It usually has thirteen ribs and five teeth, of which the posterior are much the largest. The bilabiate corolla is similar in colour. Its upper lip has two lobes and the lower three. Both corolla and calyx bear a dense covering of hairs, among which a lens will show shining oil glands. It is the oil in these that gives the sweet fragrance when lavender flowers are rubbed. The oil distilled therefrom (0.5 per cent. in fresh flowers) is used chiefly in perfumery and occasionally only in medicines (tr. lavand. co., which contains rosemary oil also, see below). The composition of the oil varies with country of origin. The much-esteemed English oil contains but little linalyl acetate, to which the fine quality of French oil is ascribed. The rank-smelling spike lavender (*Lavandula spica*) readily gives crosses with true lavender (*Lavandula vera*), and the hybrids, with strong but unpleasant odour, tend to oust the latter plant on the lower slopes of the hilly districts in Southern France, which accounts for the preference given to French oil from the higher altitudes.

Rosemary (*Rosmarinus officinalis*, Linné) is an evergreen bush with stalkless leaves, which grows abundantly on the dry, rocky hills of the Mediterranean Sea. It is grown as a garden plant in this country. The plant is markedly xerophytic in character. The evergreen leaves are about one inch long and of a leathery texture (coriaceous), being designed to prevent loss of water. The upper surface of the leaf is greyish green and glabrous, but the lower surface is white with matted hairs (tomentose), which can be seen between the incurved (revolute) margins thereof. The visible hairs are branched structures (stellate hairs), and below these are oil-secreting multicellular glandular hairs seated direct on the epidermis. The whole plant has a very agreeable odour and a strong aromatic taste. The flowers appear in spring, when the tops should be gathered for distillation of oil, but usually gathering is done at any time when convenient to the itinerant distiller. The bell-shaped calyx is two-lipped, as is also the blue and white corolla. The upper lip of the latter is erect and the lower has the central lobe of three pendulous and concave to act as a landing stage (Fig. 183). The chief pharmaceutical use of rosemary is in the form of sp. rosmarini (1 oz. volatile oil in 10 of rectified spirit) as an ingredient in hair washes.

Business Changes

DURDIN & SAINSBURY, LTD., Melbourne, Victoria, have opened a London office at 61 Broad Street Avenue, E.C.2.

MR. T. R. SMITH, chemist and druggist, has taken over the pharmacy of **MR. E. Stapleton**, chemist and druggist, Hilltop, Eastwood, Nottingham.

MR. A. J. HILL, chemist and druggist, has taken over the business of **MR. S. Rogers**, chemist and druggist, Park Crescent, Milton Road, Southsea.

THERMOS, LTD., have removed their showrooms and offices to 32 London Wall, London, E.C.2, but flasks for repair must be sent to their works, 1 Fountayne Road, Broad Lane, Tottenham, N.15.

THE RELIANCE RUBBER CO., LTD., 212-3 Upper Thames Street, London, E.C.4, have opened a new factory at 39 Lisson Street, N.W.1, for the manufacture of transparent rubberware, including the Lullaby test.

The new address of **Arthur Berton, Ltd.**, makers of surgical dressings and druggists' sundries, is Britannia House, 238-248 Old Street, London, E.C.2. The change is the result of the consolidation of various London warehouses, factories and offices into one building.

ETHYL CHLORIDE FOR HOLLAND.—A Government decree permits the importation into Holland of ethyl chloride free from duty, provided it is intended for use in the manufacture of photographic preparations.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Devon.—At a meeting of the Insurance Committee, on May 6, **MR. E. H. Toogood** (vice-chairman) stated that during 1923, £5,754 insured persons were supplied with medicines through chemists. The cost of the ingredients was £6,341 12s. 11d., and dispensing fees £6,248 17s. 9d. The total number of prescriptions dispensed was 331,854, and the average cost per prescription was 9.1d., made up of 4.6d. ingredients and 4.5d. for dispensing fees. The total cost per insured person was 36.1d. The cost in Devon was 6.6d. above the average for the area. In 1922 the average for Devon was 39.2d., and for the South-Western area 30.6d. A Barnstaple medical man and the Devon Pharmaceutical Committee had written regarding the dispensing service at Barnstaple. It was stated that the chemists had now agreed to a rota whereby prescriptions could be dispensed up to 8 p.m.

Exeter.—It was reported at a recent meeting of the Insurance Committee that 70,485 prescriptions, at a cost of £2,546 0s. 10d., were dispensed last year, the average cost being 8.8d., against 8.8d. for the area. The corresponding figures for the previous year were 69,490, £2,586 6s. 3d., 8.9d. and 9.2d., respectively.

Nottinghamshire.—At the quarterly meeting of the Insurance Committee held on April 25, the Medical Benefit Sub-Committee presented their report, which showed a large increase in the number of prescriptions issued in the area during the last three months. In March, 1923, 197,268 prescription forms were issued, and in March, 1924, the number was 278,994.

Portsmouth.—At a recent meeting of the Insurance Committee a letter from the Ministry of Health was read regarding excessive prescribing. Attention was drawn to the steady rise in expenditure on drugs and appliances since 1920: "The increase in expenditure is specially marked in particular areas, and the divergencies observable between districts and towns which are fairly comparable are too wide to be attributable to any known difference in the environmental conditions."

Sheffield.—At a recent meeting of the Insurance Committee the clerk reported that a chemist on the list had closed his premises and affixed a notice on the door, stating that prescriptions might be presented at the address of another chemist. It was decided to refer the matter to the Pharmaceutical Service Subcommittee. A special subcommittee has been appointed to consider and report upon matters arising out of the analysis and examination of prescriptions. The chemists' accounts for April amounted to £2,078.

Surrey.—At the monthly meeting of the Pharmaceutical Committee for the County of Surrey, held recently, it was agreed to accept the new dispensing terms, allowing for such alterations in the chemists' favour as the Retail Pharmacists' Union may be able to obtain through further negotiations. The Committee regretted that the Minister could not increase the fees, especially for expensive preparations, and they appreciate the efforts made by the R.P.U.

Walsall.—It was reported recently to the Insurance Committee that the new investigation of excessive prescribing would involve the employment of additional staff by the West Midland pricing bureau, and this, it was estimated, would cost about £400 more per annum. Dr. Fox said the prescriptions had never yet been checked by the new authority. In a foolish moment they allowed that power to be taken out of their hands. They should have retained the power to deal with the prescriptions themselves.

West Bromwich.—At a recent meeting of the Insurance Committee it was stated that the total charge to the drug fund for 1923 was £3,093 3s. 1d., as against £3,207 9s. 11d. for the previous year. The prescriptions numbered last year 98,205, as against 98,594 in 1922.

Personalities

MR. LIONEL COOPER has resigned his position as managing director of Bayer Products, Ltd., and has ceased his connection with the company.

MR. PHILIP LE QUESNE, chemist and druggist, of the Waterloo Pharmacy, Halkett Place, Jersey, has been elected secretary of the local Commercial Association.

MR. THOMAS HARDY, J.P., C.C., chemist and druggist, Maryport, has been appointed a member of the Local Advisory Committee for the Carlisle and District State Management Scheme.

As their representative in the West End of London, and the London wholesale houses, A. Bourjois et Cie, Ltd., perfumery manufacturers, 4 Water Lane, E.C.4, have appointed Mr. C. H. A. Stone, in succession to Mr. J. W. Damsie.

THE following pharmacists have been elected by their respective churches as members of the conference of the Rural Deanery of Wolverhampton: Messrs. F. A. Willcock (St. Peter's), M. R. Warner (St. Mark's), and J. H. Coleman (St. Chad's).

MRS. DOROTHY RICHARDS, in the Divorce Court, London, on May 12, obtained a decree *nisi*, with costs, against her husband, Nelson Mortimer Richards, described as managing director of a firm of export chemists, on the ground of his desertion and adultery.

As their representative in Newcastle and district, Thomas Kerfoot & Co., Ltd., manufacturing chemists, Bardsley, have appointed Mr. A. E. Toovey, in succession to Mr. Morley, who has represented the company in the North for over thirty years, and finds it necessary to relinquish the more outlying portions of his ground.

MR. W. T. WHITE, M.C., who for some time past has been with E. H. Butler & Son, Humberstone Gate, Leicester, and was formerly with "Ucal," has been appointed factory manager to S. A. Smith & Co., Ltd., Auckland, New Zealand, and will sail shortly to take up his duties.

At the annual meeting of the French Photographic Society, recently, the Janssen memorial medal was awarded to Dr. C. E. K. Mees and the Devanne medal to Mr. W. B. Ferguson, in recognition of their work in connection with the advancement of photography. This is the first occasion on which these medals have been awarded to foreigners.

ON the completion of fifty years' service with P. B. Cow & Co., Ltd., rubber manufacturers, Cheapside, London, E.C., Mr. Charles Ward, the company's senior representative, has received a presentation of silver plate from the directors. Mr. John Carr, who recently retired from the board, had also attained his jubilee of association with the company.

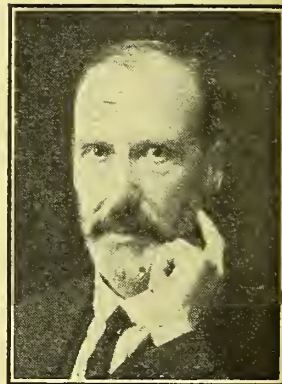
MR. H. I. BELL, O.B.E., M.A., Assistant-keeper in the Department of MSS. in the British Museum, has been elected honorary secretary of the Egyptian Exploration Society, in succession to Dr. Hall, who resigned on being appointed Keeper of the Egyptian Department in the Museum. Mr. Bell is the son of Mr. C. C. Bell, chemist and druggist, formerly of Epworth.

EDWARD J. SHORTT, a director of Chas. L. Huisking, Ltd., since the incorporation of the company, has joined the board of directors of the Old Strand Chemical and Trading Co., Ltd., Audrey House, Ely Place, London, E.C.1. In addition to the business in fine chemicals and alkaloids, it is the intention of the company to develop trading in crude drugs, American botanicals, essential oils, etc. Mr. Shortt is well and favourably known in wholesale drug trade circles, both in England and the United States.

At a meeting of the Grosvenor Lodge, No. 1,257, held at Freemasons' Hall, London, W.C., on May 6, Mr. J. T. Warburton installed Mr. J. F. Lintott into the chair. Other officers appointed and invested were:—Messrs. J. T. Warburton, I.P.M.; G. Harris, S.W.; F. J. Lock, J.W.; F. Pearce, S.D.; Gwilym Thomas, J.D.; O. J. Jones, I.G.; L. J. Read, C. J. Hellis, and

W. J. Pagden, Stewards. A Past-Master's Jewel and Collar was presented to Mr. J. T. Warburton in recognition of his able services during his year of office, and at the banquet which followed he was also presented with a clock by the members, and a silver cigarette box by his initiates. A large number of members and their friends were present, including Messrs. George Parkin, P.G.D.; John Phillips, P.G.St.B.; W. B. Trick, P.A.G.St.B.; D. P. Jones, E. A. L. Yates, S. J. Porter, F. B. Arnold, R. Robinson, W. Robinson, W. Main, R. J. G. Armitage, W. L. Evans, P. W. Francis, S. C. Richie, T. Marns, and F. A. Lawman.

THE retirement of Mr. A. J. Chater at the end of the present month from the post of assistant secretary of the Pharmaceutical Society will occasion widespread regret. As the President of the Society said in his tribute at the Council meeting on May 7 (*C. & D.*, May 10, p. 664), Mr. Chater has been on the staff at 17 Bloomsbury Square since 1886. At that time the present examination-hall had not been built, nor had the adjoining premises in Bloomsbury Square been acquired. Both these events occurred, however, within four years after Mr. Chater made his appearance, and assuredly did not render his work lighter. In 1911 he was formally appointed assistant secretary, and towards the end of the European war he was joined in that office for a time by Mr. G. A. Mallinson. How assiduously and with what courtesy Mr. Chater's varied duties have been carried out is known to all who have come into contact with him during his long period of office.



MR. A. J. CHATER

New Books

STRAUSS, DR. R.—*Impurities and Falsifications of Chemicals, their Determination and Recognition*. 7½ in. by 5 in. Pp. 96. M. Bohlmann, Meissen (Germany). [In the preface it is stated that this work is intended for the small manufacturer or dealer who does not possess a fully equipped laboratory enabling him to test supplies of drugs. A number of chemicals in common use are described, with brief details of their manufacture, characteristics, and forms in which they are to be found on the market, with their respective uses. This information is followed by an enumeration of the more commonly occurring impurities, and a brief description of some simple identity tests, and tests for the recognition of impurities. Compressed within a small space, the work contains much useful information, although the English leaves something to be desired.]

MIRKOVICH, A.—*Aesculap*, 1924. 6 in. by 4 in. Pp. 300. Mag. Pharm. Andrija Mirkovich, Novi Sad. [This is the pharmaceutical almanack for Jugo-Slavia, and contains a wealth of useful information for the pharmacists of that country. It includes extracts from the various laws and regulations affecting pharmacy, lists of the medicinal plants to be collected during each month of the year, a formulary, tables of synonyms, temperature equivalents, atomic weights, a collection of formulas for cosmetic preparations, particulars concerning the various administrative bodies, the universities, the professional associations, and a complete list of all the pharmacists and druggists in the kingdom. The work is well printed on good paper, partly in Serbian and partly in the Slavonian languages. There are also numerous advertisements, but no British firm figures among the foreign advertisers.]

Births

Notices for insertion in this column must be properly authenticated.

REES.—At 26 Larkhill Place, West Derby, Liverpool, on May 6, the wife of H. P. Rees, M.P.S., of a daughter.

Marriages

KERR—ROYCE.—At St. Michael and All Angels Church, Southfields, London, S.W.18, on April 19, by the vicar, the Rev. E. C. Campbell, M.A., Robert Henry Kerr, M.P.S.I., Larne, younger son of Thomas Kerr, J.P., Ballymena, to Violet, elder daughter of Mr. F. Royce, Bellevue, Wimbledon Park Road, S.W.18.

SMITH—GALL.—At the Grand Hotel, Aberdeen, on April 29, John St. John Smith, L.D.S., to Violet Helen Bruce, daughter of Mr. Alexander Gall, chemist and druggist, Fraserburgh.

VERNON—TAYLOR.—At Masborough, Rotherham, on April 24, Leonard Vernon, chemist and druggist, to Hilda Violet Taylor.

Deaths

CURTIS.—On May 8, Charles Curtis, aged seventy-five. Mr. Curtis was a veteran employee of C. R. Harker, Stagg & Morgan, Ltd., manufacturing chemists, Mile End, London, E.1, having been with them since 1864.

MANDER.—At Belle Vue House, Malvern, on May 8, Joy, wife of Mr. Alfred Mander, chemist and druggist, aged twenty-six.

NIBLETT.—At Cardiff, recently, Mr. Walter Vernon Niblett, chemist and druggist, aged twenty-nine. Mr. Niblett, who passed the Qualifying examination in 1920, had been an assistant with Mr. G. T. Williams, chemist and druggist, Cowbridge Road, for the past eleven years.

SHELLEY.—At his residence, 40 St. John's Road, Newport, Mon., on May 7, George Shelley, chemist and druggist, Corporation Road, aged fifty-five.

SMITH.—On May 3, Mr. Charles Smith, chemist and druggist, Sleaford, aged seventy-two. Some forty-five years ago Mr. Smith acquired the business now carried on by Mr. F. Harpham, chemist and druggist. Later he became host of the Bristol Arms Hotel. He served on the Urban Council for some years, and was a county magistrate, and a prominent Freemason.

WARBURTON.—A subscriber (12/5) sends us the following particulars of the late Mr. W. Warburton, chemist and druggist, whose death was recorded in our issue of May 10 (p. 659):—

The late Mr. Warburton was left an orphan at an early age. He was educated at Durham Cathedral Choir School, of which Cathedral he was a chorister, and was afterwards apprenticed in the city. After passing the Qualifying examination in 1877, he carried on a business in Hereford, and in 1907 went to East Kirkby, disposing of the latter business in 1920 to Mr. G. W. Daykin, chemist and druggist. Mr. Warburton is survived by a daughter.

WINTERTON.—On May 12, Mr. William Ralph Winterton, drug merchant, 101 Leadenhall Street, London, E.C.

INDIAN SANDALWOOD OIL INDUSTRY.—In Mysore, India, at Bangalore and Mysore City, there are in operation two sandalwood oil refineries, which have made good progress in the manufacture of a special grade of oil suitable for the Japanese trade, from which it has displaced the German product. During last year these factories utilised 750 tons of sandalwood, as compared with 503 tons in 1922, and good profits were made in the production and sale of the oil. The Mysore Government have been responsible for the present encouraging position of this industry, and there remain vast forest resources of sandalwood in the State to be exploited. ("Chamber of Commerce Journal.")

Westminster Wisdom

By the "C. & D." Parliamentary Representative.

THERAPEUTIC SUBSTANCES BILL

The Committee stage of this Bill in the House of Lords, which was fixed for May 15, has been put off until May 20.

THE FINANCE BILL

embodying the financial proposals of the House of Commons on the Budget, was presented on May 12, and is to be read a second time on May 19.

CUSTOMS CLEARANCE FEE

Mr. Hogge asked the Postmaster-General, on May 13, by what authority he imposes a charge of 6d. on parcels affected by the Safeguarding of Industries Act, in view of the undertaking to deliver parcels to consignees for a payment duly made?

Mr. Hartshorn replied that the charge is authorised by paragraph 8 of the Foreign and Colonial Parcel Post Warrant, 1921. It is a Customs clearance fee, and is collected on every incoming postal parcel assessed for Customs duty to cover the cost of the work performed by the Post Office on behalf of the addressee in clearing the parcel through the Customs.

OPIMUM SMOKING

The Colonial Secretary, in reply to a question, stated in the House of Commons on May 8 that the only British Colonies, Dependencies and protected States in which the smoking of opium is permitted are Hong Kong, the Straits Settlements, the Malay States, North Borneo, Sarawak, Ceylon and Weihaiwei. In Hong Kong, the Straits Settlements, the Malay States and North Borneo Government monopolies have been established for the manufacture and sale of prepared opium under stringent regulations, at a high price which is intended to discourage consumption. In Ceylon and Weihaiwei consumers of opium are registered. In Weihaiwei the medical officer may only issue licences to persons whose health would be injured by the deprivation of the accustomed use of opium. In Ceylon no new licences for the smoking of opium are now issued. In Sarawak the sale of opium has hitherto, subject to strict regulation by Government, been in the hands of a licensed syndicate, but this system is shortly to be replaced by a Government monopoly.

SAFEGUARDING OF INDUSTRIES ACT

Sir J. Simon asked the President of the Board of Trade, on May 12, whether he is aware that a consignment of sodium phosphate arrived at Millwall Docks on April 5, and, although the importer made a free entry in respect of the goods, the dock officers demanded that a sample should be taken; that it was not until four days later that the goods were released as being non-dutiable, and during that period the goods were in a barge on which there was heavy demurrage; and, in view of the fact that 60 per cent. of the consignments of chemicals held up, pending the result of the test by dock officers, are ultimately found to be not liable to duty under the Safeguarding of Industries Act, whether some better arrangements can be made for the quick transit of samples from the docks to the laboratory, in order to avoid delay and consequent financial loss to importers, who have to pay demurrage on barges while goods are held up?

Mr. Graham, who replied, said he regretted that delay should have occurred in this case, and steps are being taken to obviate any recurrence. The four days mentioned included a Saturday and Sunday.

PATENTS, DESIGNS AND TRADE-MARKS.—The forty-first report of the Comptroller-General of Patents, Designs and Trade-Marks states that during the past year his department received 32,621 applications for the registration of patents, 19,085 for that of designs, and 12,571 for that of trade-marks. The first number shows a decrease of 2,873, the second an increase of 3,349. The year's business gives a surplus of £81,797.

Trade Notes

COMPRESSED TABLETS in bulk or packed are offered by Buckley-Bowker Tablet Co., Clarence House Showrooms, 43 Arthur Street, King William Street, London, E.C.4.

ALAN'S PATENT SAMPLE BAGS are shown in the advertisement of Rockliff Bros., Ltd., 44 Castle Street, Liverpool. The bags are much used for commercial samples of drugs.

"A.1" OLIVE OIL.—Southall Bros. & Barclay, Ltd., Birmingham, offer display material for window shows of the "A.1" olive oil. The prices of the oil are given in the announcement in this number.

PASTEUR-CHAMBERLAND FILTERS.—The British Pasteur-Chamberland Filter Co., 5 White Street, Finsbury, London, E.C.2, have issued a new illustrated price list of their filters. The list will be sent on application.

LAMPLOUGH'S PYRETIC SALINE is again to be largely advertised. The new selling prices are 2s. 6d. and 4s. 6d. per bottle. Particulars can be had from Henry Lamplough's Saline, 1 Eden Street, Hampstead Road, London, N.W.1.

LA REINE DES CRÈMES.—Calmon & Neate, 8 Gerrard Street, London, W.1, sole agents for J. Lesquendieu, Paris, make a special bonus offer of one dozen handbag size of La Reine des Crèmes for each dozen of the 2s. 3d., 3s. 6d., and 6s. 6d. sizes.

B.D.H. EXHIBIT.—The British Drug Houses, Ltd., have published in pamphlet form a record of their exhibit at the British Empire Exhibition. Well printed and illustrated, a most interesting account has been produced, which chemists will read with pleasure.

THE OLD STRAND CHEMICAL AND TRADING CO., LTD., Audrey House, Ely Place, London, E.C.1, notify in this issue that they have been appointed sole representatives in this country for Carlo Erba, of Milan, and Le Essence Italiana, Società Anonima, Gallarate, distillers of Italian essential oils.

"G.O." LEMONADE.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E.13, advertises in this issue special bonus terms for the "G.O." lemonade powder, in return for window shows. The shilling size is now put up in a tin with enamelled label, and is larger than that formerly employed.

POUDRE COMPACTE.—"Thé Dansant" brand of poudre compacte, which is made by Solport Brothers, Ltd., 184-190 Goswell Road, London, E.C.1, has been reduced in price to 6s. and 7s. 6d. per dozen. The boxes are figured in the company's advertisement in this issue, and are complete with puff. The higher-priced article has a diminishing mirror in the lid. The powder boxes are excellent value for the money, and should sell freely where shown.

PRICE OF INSULIN.—Too late for insertion in the last issue of THE CHEMIST AND DRUGGIST, we received information that all the makers of Insulin had reduced their prices as from May 12 to the uniform prices, 4s. 8d. and 9s. 4d. for 100 and 200 units. The makers advertising the reduced prices in this issue are: The British Drug Houses, Ltd., and Allen and Hanburys, Ltd. ("A.B." brand); Boots Pure Drug Co., Ltd.; Burroughs Wellcome & Co. ("Wellcome" brand); and Evans Sons Lescher & Webb, Ltd. ("Evans" brand).

ABBEY BOX-CARRIERS.—The advertisement in this issue of the Abbey Box-Carriers, Ltd., 318 King Street, Hammersmith, London, W.6, explains the advantages of the Abbey cycle carrier for tradesmen's use. Instead of having the goods carrier on the handle-bar, a box fitted with shelves is fitted on the frame between the wheels of the bicycle. A better balance is thus obtained, and the machine cannot overturn, as often happens with the old form of carrier. The outside of the carrier box presents a large space for advertising matter. The machine costs £16, and payment can also be made on the instalment system. Bottle and syphon racks can be fitted specially for chemists' delivery.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1924, p. 289.

(From "The Trade-marks Journal," April 30, 1924.)

- "GERMANIN"; for medicinal chemicals (3). By A. C. Henry, 19 St. Dunstan's Hill, London, E.C.3. 446,358.
- "RAPEX"; for a corn remedy (3). By F. G. Stewart & Co., 185 Commercial Street, Kirkcaldy. 446,428.
- "PLYAFIX"; for industrial milk powder (4). By J. Nathan & Co., Ltd., 16 St. Helen's Place, London, E.C.3. 444,643.
- Device of statue of boy and serpent; for infants' and invalids' food (42). By A. & W. Lindt, 9 Gerbergasse, Berne, Switzerland. 442,513. (Associated.)
- "LACTOGEN"; for food substances (42). By Nestlé & Anglo-Swiss Condensed Milk Co., 6 & 8 Eastcheap, London, E.C.3. 444,575. (Associated.)
- "KOOKAL"; for machine-skimmed dried milk (42). By Mikal, Ltd., 31 St. Petersburg Place, Bayswater, London, W.C.2. 445,775. (Associated.)
- "LA PRADERA"; for goods (47) and for perfumery, etc. (48). By Hodgson & Simpson, Ltd., 37 Bankhall Street, Liverpool. 446,255/256. (Associated.)
- "KIFKIF"; for perfumery, etc. (48). By Danish Soap Industries, Ltd., 49A Old Bailey, London, E.C.4. 444,312.
- "FLORA MACDONALD"; for perfumery, etc. (48). By Potter & Clarke, Ltd., 60 Artillery Lane, London, E.1. 445,121. (Associated.)
- "MARQUISE" on shield device; for perfumery, etc. (48). By the London Perfumery Co., 146 Bishopsgate Street, London, E.C.2. 445,570. (Associated.)
- "MY LADY BETTY"; for perfumery, etc. (48). By Piesse & Lubin, Ltd., 244 High Holborn, London, W.C.1. 445,962.
- "FLANERIE"; for all goods (48). By Nyal Co., Ltd., 11 Great James Street, Bedford Row, London, W.C.1. 446,259.

(From "The Trade-marks Journal," May 7, 1924.)

- "VENECHIN"; for chemicals (2). By Venecin Aktiengesellschaft für Chemische Produkte, 215 Kurfürstendamm, Berlin, W., Germany. 446,350.
- "IZAL USED THE WORLD AROUND," on circular device, including the world; for disinfectants (2). By Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield. 443,284. (Associated.)
- "ITONO"; for all goods (2). By W. Stevens & Co., 37 East Hill, Wandsworth, London, S.W.18. 446,015.
- "NITROPHENE"; for fertilisers (2). By R. A. Munro & Co., Ltd., 140 West George Street, Glasgow. 446,891.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

- | | |
|---------------------------------|-----------------------------|
| H/135. Amaryllis—Lubin's | D/155. Sale's Italian Olive |
| M/135. Cycle brand elastic | Oil Soap. (Present |
| hosiery | supply.) |
| M/85. Faultless feeders | B/55. Santonyl phosphate |
| B/125. Lolo teats | tablets |
| B/215. Pearce's effectual truss | S/105. Stella (or Stilla) |
| E/135. Oil of Stingatee (Aus- | Cachets No. 1 |
| tralian Fish) | |

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

- | | |
|---------------------------------|--------------------------------|
| Bismolan suppositories. S/46 | Kingfisher brand brushes. S/29 |
| Brouchoiline. W/135 | Mackenzie's Arsenical Soap. |
| Brystele razor bath solution. | L/26 |
| T/135 | Murray's Gout Specific. L/26 |
| Bunter's Nervine. L/26 | Neoklorin tablets. B/66 |
| Campbell's Nicotine Soap. C/254 | Neurine. D/105 |
| Empire safety razor bath solu- | Oxydent. E/165 |
| tion. B/125 | Panulin. B/304 |
| Endocrines. A/56 | Pituglandin. M/56 |
| Flowers of Oxzoin. L/26 | Promonta food. E/105 |
| "Flying Man" razors. D/56 | Protex. C/125 |
| Geisha toilet rolls. C/66 | Sanitabs. N/304 |
| Genovar. A/18 | Singleton's Eye Ointment. L/26 |
| Griphight soothers. M/56 | Tatchotone. E/105 |
| Houbigant's face powder. F/306 | Three Flowers face powder. |
| John Craven Burleigh's Hair | F/305 |
| Tonic. A/294 | Uzit Toothache Drops. E/56 |
| Koh-I-Noor tooth brushes. | Voxsan. D/105 |
| D/135 | |

Observations and Reflections

By Xrayser II.

The Annual Report

submitted to the Council last week can hardly be regarded as satisfactory. Apart from the receipts from the sale of the Codex, which are earmarked for a special purpose and do not come into the general account, the income of the Society was considerably less last year than the year before, and its expenditure was less in proportion; the number of names on the Register has increased by 519, the membership of the Society by 272 only; there was a considerable decrease in the number of candidates for the Major examination; and there was a slight decrease in the amount contributed to the Benevolent Fund, in spite of the special effort made to recover the ground lost in the previous year. There is nothing immediately disquieting in all this, but it does not justify the jubilant note of the united manifesto of the seven retiring candidates for the Council. The fact that there are no "big controversial issues before the electors," that the only question that matters is the personal fitness of the candidates, is a strong reason against this "joint appeal." Now our constitution provides for a yearly infusion of new blood, the desirability of which is evident and was well understood by our founders. This infusion these seven deliberately set themselves to prevent.

Returning to the Report,

there are one or two points in it which call for special remark. The first is the method in which it is proposed to get increased support for the Benevolent Fund. This is by increased local effort, which is as much as to say by increased subscriptions from members. There is evidently no intention of direct support from the Society itself, though this was contemplated and implied in the Charter, and was the custom in the early years of the Society's existence. It has been denied that the decrease in subscriptions to the Fund has anything to do with the increase in subscriptions to the Society—it is the old tale, we are told, of Tenterden Steeple and the Goodwin Sands—but I have good reason to believe the contrary. By all means stimulate subscription, but I suggest that the best means would be the setting of an example by the Society itself. I may be told that this is a bad time to begin, since the Society's income seems to be falling, but the possibility of greater economy in other directions remains, and what says John Bunyan?—

There was a man, though some did count him mad;
The more he gave away the more he had.

Generosity has been known to pay. The other point I had in mind was the faulty English of paragraph 9 of the Report. It is unfortunate that this paragraph deals with education. Some of the sentences in it are very awkwardly, not to say incorrectly, worded. May I remind the Council that education, as well as charity, should begin at home?

The Logical Conclusion

to which anybody accepting Mr. David A. Evans's doctrine that our internal secretions are the holders of the secret of our innermost being must come to would seem to be pure determinism. We are no longer (if this is true) in any proper sense moral creatures: we have indeed no true self, but are entirely creatures of circumstance, parts of the system of nature, without responsibility for our actions since they flow from the necessity of our nature. But we are conscious that this is not so. We are indeed to some extent under the dominion of natural law, but we are still self-conscious beings, and "self-consciousness," it has been said, "is primarily the consciousness of self as opposed to the world"—that is, to the world of nature. This "self" of which we are conscious is, surely, our "innermost being"; the moral sense inherent in it, of which we are as conscious as we are of the natural or bodily senses, is as valid as they, and can hold its own against

them while reason survives in us. Reason may no doubt be overthrown, but that does not affect the fact that rational creatures are responsible for their own character.

Few Names,

if any, of men I did not actually know were more familiar to me in my 'prentice days than that of Henry Beasley, or, I should say, Beasley only, for to me he was not a man, but a book, or, rather, two books, the "Pocket Formulary" and the "Druggist's Receipt Book," the two depositories of all the extra-official information I had access to touching the art and mystery into which I was then being initiated. In those days the *C. & D.* had not provided us with a "Chemists' Library" (indeed, the *C. & D.* itself was but "mew-ing its mighty youth" in the third year of its existence), and Cosley and Gray were far above our modest requirements. But "Beasley" was indispensable. Squire had superseded him to some extent, so far, at any rate, as the more modern medicaments were concerned, but for the more recondite formulas, from *Aceticum Antihystericum* to *Vitrum Antimonii*, we had recourse to "Beasley." The "Receipt Book" was often in use. We had our own private forms (none so good) for all the domestic, veterinary, or general trade preparations in common demand, but for any outlandish article, such as German Paste, or Ruspini's Dentifrice, or a remedy for convulsions in ducks, it was "look in Beasley," and Beasley rarely failed us. It is long since I had to consult him, and it is with something of a shock that I find him figuring in the current number of the "Glaxo Bulletin" as just a country pharmacist like myself, whose shop is still in existence in Banbury (and a delightfully old-fashioned shop the picture shows it to be)—Banbury, of all places in the world—a name formerly of but two significances to me, cakes and cock-horses ridden by ladies with rings on their fingers and bells on their toes. No doubt there were many "mute inglorious" Beasleys in the country shoes of my youth. We were not so highly "educated," perhaps, as the men of to-day, but we "knew what's what, which is as high as metaphysic wit can fly," and I sometimes fear that, as Tennyson puts it, "the individual withers" as "the world is more and more."

The Draft Articles of Agreement

between a pupil (or apprentice), his parents or guardians, and his employer are needlessly long and a little one-sided, twice as much space being given to the duties and engagements of the pupil as to those of the employer. It is true that most of what is said under the former head is simply verbiage—all the old rigmarole about revealing the employer's secrets and embezzling his books, papers, moneys, etc., is retained. All the virtues proper to the character, faithfulness, diligence, honesty, propriety, etc., are, moreover, exacted from him, whereas the employer is not required to exercise any of them; the pupil's guardians are to make good any loss to the employer due to misbehaviour, neglect, or improper conduct on the pupil's part, while the only return they are allowed from the employer relates to loss of training if he dies before the term is completed. No doubt most of what is exacted from the pupil will be regarded as so much dead letter, but what sense is there in setting down in such solemn sort so much that will never be enforced? It is perhaps meant merely to over-awe the pupil, but it is quite as likely to be construed as an insult. In any case, what is sauce for the goose is sauce for the gander; I suspect that, as a rule, the apprentices of the past have been quite as faithful as the employers to their articles of indenture.

The Last Two

of your Nature Pictures of Medicinal Plants are undoubtedly the best of the series. One's only regret is that they are the last, but it would be unreasonable to ask for more.

SOCIETY OF PHARMACY.—Prof. Gley, of the College of France, and M. Dorveaux, ex-librarian of the Paris Faculty of Pharmacy, have been elected associate members of the Paris Society of Pharmacy.

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A *N announcement of particular interest to you appears in this issue on page 8.*

**EXTRA
RECTIFIED****ALCOHOL****FOR
PERFUMERY****J. BURROUCH, Ltd., F1 Cale Distillery, LAMBETH, S.E.11****Editorial Articles****The Wholesaling of Poisons****VI. Conclusion**

OUR review of the law regarding the sale of poison by wholesale has revealed many anomalous interpretations as the result of piecemeal legislation and patchwork regulations. In fairness to the responsible authorities it must be pointed out that their task was indeed a difficult one, because a complete synopsis of the situation could only be built up on the analytic, deductive, and finally synthetic system adopted in this series of articles. The Home Office committed the error of expecting civil servants to be capable of understanding technical details, obtainable only through practising as wholesale or retail druggists. The Pharmaceutical Society seems to have been unable to stem the tide of opinions flowing from the law officers of the Crown, while the Drug Club has accepted the dicta of the Home Office and made the best of a bad job as regards registration of poisons. There would be little point in these articles if the matter could be left as it stands at present, because each wholesaler has at work some system of dealing with orders for Schedule I poisons or dangerous drugs. The trouble will arise when some unfortunate oversight or accident results in the institution of legal proceeding, and during the hearing there is an inspection of the poisons registers or an inquiry into the labelling provisions, when more examples of things that have not been done will come to light, as with the outstanding example of official prescription form for "dangerous" drugs. The Pharmaceutical Society's attitude of merely administering the law as it stands requires modification. If it is necessary to tighten up the restrictions on the sale and storage of poisons by legitimate wholesale druggists, surely the case for the sale of poisons by unqualified vendors has gone by the board. Since the inclusion of agri-horticultural poisons in the Poisons and Pharmacy Act, 1908, there has been more than one case of criminal poisoning by arsenic in the form of weed-killer, while labelling "poisonous" cannot be a safeguard against such a foolish action as selling hydrochloric acid in a syrup tin. No one doubts the honesty of purpose of the Home Office in its desire to suppress the vicious use of "dopes," but it should be above subscribing to the exaggerated descriptions of police officials. We should like to see the Home Office realising that qualified chemists and druggists are the only persons trained to deal with the sale of poisons, and the only individuals who have gone out of their way to stop the use of poisons for criminal purposes. Wholesale houses which for years have refused to sell poisons except to customers they know and approve, are fully

entitled to the trust and respect of the Home Office in dealing with "dangerous" drugs. There is a legitimate use for narcotics and local anaesthetics which is being stifled by repressive legislation, a condition of affairs engendering misery among sick persons entitled to relief from their sufferings. Controlling the supply of "dangerous" drugs and confining their use to cases of disease or illness must rest upon the co-operation of the legal vendors of poisons in Part I of the Schedule, wholesale and retail. It is time that the various authorities lost sight of their sectional interests and co-operated in the codification of Poison Law, whether by regulation or through Parliament. It ought to be the business of retail pharmacists and the Drug Club to stimulate the Pharmaceutical Society to a real activity in its dealings with the Privy Council and the Home Office. The Pharmaceutical Society has at last a golden opportunity to enter legitimately into trade matters of pharmacy, and a little business push would be appreciated all round, if the Society could also show a little of the modern trade union's aptitude for bargaining. The prohibition of the sale of poisons by unqualified vendors should be a *quid pro quo* for help in suppressing the use of dopes, and for keeping up the system of poison registers, which is ever proving to be a safeguard for public welfare.

Insurance Dispensing Terms

THE Minister of Health has done wisely in frankly recognising the justice of the claim of chemists for out-of-pocket expenses in the case of expensive proprietary preparations and appliances not included in the Insurance Drug Tariff. This claim has seemed to us to be so obviously fair that it is a matter for wonder that no attempt has previously been made to secure this allowance for chemists. No dispensing fee, however calculated, could ever be expected to cover such unusual expenses as messengers' fares and special carriage charges, which are occasionally incurred in procuring particular preparations for insured persons. In our recent review of the whole question of chemists' remuneration we laid particular stress on this point, and we are glad to see that it is now conceded; for in conjunction with this allowance the proposed scale of fees payable in respect of special prescriptions is considerably more favourable to chemists than the existing arrangements. In future the fee of threepence for proprietary articles is limited to preparations costing thirty pence or less; for all those which cost over thirty and up to sixty pence the fee is to be fivepence. Up to 10s. the fee will be sixpence, with an extra threepence allowed for each 5s. or part of 5s. by which the preparation exceeds 10s. in value. For appliances, the existing fee of twopence is to be allowed for all of the value of thirty pence or less, with an extra fee of twopence for those exceeding thirty but not exceeding sixty pence in value, beyond 5s. The extra amounts allowed are the same as those for proprietary preparations. For all practical purposes any increase in the chemists' remuneration as a result of the alterations in terms is restricted to these special preparations; namely, serums, vaccines, insulin, expensive appliances and expensive proprietaries. These terms have now been settled for a period of three years, so that no further modification of the dispensing-fee scale can be hoped for until 1927. The mixture fee still remains at fivepence, and the basis upon which the establishment allowance was calculated has not been revised. In the next three years much may happen to disturb the present balance. A Royal Commission is to inquire into the present scheme of National Health Insurance and report on any alterations in the medical arrangements (amongst others) which may be considered necessary. As a result of this inquiry the present arrange-

ments with chemists may be modified. In view of this, chemists' representatives should have a strong case ready to put forward when the time comes for them to give evidence before this Commission. It may be possible for them to secure revision of the principles upon which the present Drug Tariff is based. They should at least press for a reconsideration of the method of calculating the amount due to chemists as an allowance for establishment charges. Chemists have need of wise and strong advocates in order that their case shall not suffer in the manner in which it is presented. On the other hand, individual pharmacists must furnish their representatives with all the facts they can in support of their claims in order that their case shall not fail through lack of the necessary evidence. The aim of all should be to secure that the Tariff of 1927 shall recognise more clearly the professional character of the pharmacist's work and shall provide adequate remuneration for the services he renders.

The Break in Arsenic

IN our issue of March 8 last we dealt fully with the subject of increased arsenic production and the circumstances under which the aspect of the market had been weakened since the close of last year, when the price of Cornish powder delivered London stood at about £59 per ton. Within the last few weeks the continuous sagging of the market has become particularly pronounced, offers having been reported by Cornish producers at the close of last week down to as low as £50 free on rail Cornwall, which is approximately equal to £52 10s. delivered at this end. Under the date above-mentioned, when the American price was about 13½ cents per lb. and Cornish arsenic in London was realising £63 to £64 per ton, we stated that there was no doubt that full preparations had been made by American importers in the earlier part of the year to cope with prospective needs over the spring season for agricultural use or in connection with the manufacture of insecticides; furthermore, that a considerable part of the arsenic arrivals in America had not as yet been absorbed, due to the reluctance of users to concede importers' terms. This state of things since would seem to have become aggravated, as borne out by the fact that arsenic has lately been selling on the other side at about 9 cents, or 4½ cents per lb. under the quotation ruling at the end of March. Unseasonably cold and dry weather would seem to be the main reason for the non-appearance to any extent of the boll weevil and other pests in the cotton-belt so far according to more recent advices from America, although agricultural interests fully realise the necessity sooner or later for resort to insecticides in order to combat the pest. Possibly the visitation of the latter may be to some degree rendered less formidable consequent upon abnormal climatic conditions and the backwardness of the crops. Evidently the laying in of the usual supply of insecticides to deal with the parasites has been deferred beyond the calculation of manufacturers of insecticides, which has inevitably intensified the slackness of new demands for arsenic, especially on a sharply falling market. Weather and crop conditions for the better, of course, however, are apt to bring about a rapid change in the prospective outlet for arsenic, more particularly at a very considerably reduced level of prices, while bearing in mind that the extent of the demand has also no little to do with the question of costs. In the meantime, however, apart from the factor relating to increased world production, it is quite apparent that under the protracted lull in the demand producers' offers of surplus stocks have been rather pressed on the market. This particularly refers to Japanese producers, who had been accumulating supplies over the winter months in anticipation of a brisk American demand towards the spring. Offers from that quarter have, indeed, been of a decidedly more insistent

character in recent weeks, down to about £45 per ton and even less. This depressing competition has proved one of the main factors in the constant crumbling of prices. Some of the Cornish mines made fairly good sales well ahead of their current output a few months back, but Cornish terms lately, however, were brought more into line with the parity of Japanese offers. For the moment there seems a more or less general slackening of demand with not much prospect of any revival of buying pending new life being infused into the transatlantic trade. The state of the latter, with its suggested unlimited possibilities subject to economic conditions and not unduly inflated prices, must naturally be expected to be the chief regulating market factor. At the height of the "boomlet" in the earlier part of last year highly inflated terms were secured by dealers in America as compared with London values, due to an urgent demand, but lately re-sales of Japanese arsenic in America were even effected at under the parity of this market, thus indicating that surplus stocks were pressed for sale. A comparison of the highest and lowest points recorded in the last three years, and so far this year, as given below, is interesting and indicates the exceedingly wide fluctuations which have taken place in Cornish white powder:—

	Highest	Lowest	Dec. 31
Per ton d/d. London	£	£	£
1921	70	35	44
1922	70	30	70
1923	75	53	69
1924 (to date)	69	52	52 (May 15)

The present price shows a setback of about £17 per ton compared with the beginning of this year, and is the lowest seen since the relatively low figures reached at one period in 1922, down to about £30. At around £50 arsenic is still dear, allowing for an increasing world output, and this level, in the opinion of some dealers, is more than sufficiently attractive to encourage production. In times of marked scarcity incidental to an exceptionally brisk American demand, inflation naturally is quickly in the ascendant, but usually tempts the withholding of supplies until a lull in the demand inevitably causes them to be released under keen competition.

Specialities in Turkey

NEW regulations dealing with the importation into Turkey of pharmaceutical specialities, serums and vaccines, have been issued by the Commissariat for Public Health. These regulations stipulate that in the case of preparations of this description for the importation of which no licence has been granted, and which, consequently, do not figure on the list of articles which may be admitted by the Customs authorities, an application for permission to import and sell the same must be made, either to the Commissariat for Public Health and Public Assistance in Angora, or to the Director of Public Assistance in Constantinople. This application must be accompanied by a declaration setting forth the formula of the preparation or product, and that its composition agrees with the statement appearing on the label, etc., whereby only the composition of the preparation need be disclosed without indicating the amounts or proportions of the ingredients. This declaration has to be certified by a Turkish Consul, or, in countries where there is no Turkish Consulate, by the Consul of the country entrusted with the protection of Turkish interests. In addition, five packages of the article have to be submitted, together with the application, which must be accompanied by the fee for the analysis, viz., 505 piastres. If the analysis shows that the contents conform with the disclosed formula, and the Commissariat for Public Health is satisfied that the preparation is of value as a medicinal agent, permission to import will be granted and the necessary instructions issued to the Customs authorities. The order contains a provision to the effect that "the importation and sale in the country of

pharmaceutical specialities, serums and vaccines which have not complied with the foregoing formalities within a period of three months from the date of publication of these regulations (i.e., April 21, 1924) shall be prohibited." Manufacturers and exporters of these categories of products who already possess a licence to import and sell their preparations in Turkey, issued by the Commissariat for Public Health, or by the former General Direction of Health, are required to send in, within a period of three months dating from April 21, 1924, three certified copies of their licence to the Commissariat for Public Assistance in Angora. In case of non-compliance with this requirement, at the expiry of the above-mentioned period the permission to import and sell will be cancelled.

The Royal Society

THE spring conversazione of the Royal Society was held at Burlington House, Piccadilly, London, W., on May 14. Pharmacognosy was not represented, and chemistry only indirectly, *inter alia*, by a recently discovered medallion portrait of Priestley modelled in wax, signed "S. Percy, 1788," in which the scientist is represented in his robe as Unitarian minister. The Explosives Branch of the Research Department, Woolwich, exhibited a new type of isothermal calorimeter, in which the substance is placed in a container of non-corrodible metal mounted in the centre of a massive bomb, in such a way that equality of temperature between the container and the inner walls of the bomb may be gauged to within 0.0001° C. by means of a series of thermo-junctions and a galvanometer. Professor W. A. Bone showed the apparatus used in his research work on gaseous combustion at high pressures, a nickel-steel bomb capable of withstanding pressures up to 1,000 atmospheres, fitted with Petavel manometer for recording pressures from one to thirty atmospheres. The effect of boron, in minute quantities, on certain plants formed the subject of the exhibit of the Rothamsted Experimental Station. By means of living specimens and slides Dr. W. E. Brenchley and Miss K. Warington demonstrated that *Vicia faba*, *Glycine hispida*, *Phaseolus vulgaris*, and various species of *Trifolium* all require small quantities of boron to enable them to develop properly, the presence of one part of boric acid in 2,500,000 parts being sufficient. In the absence of boron, flowering and fruiting are adversely affected, and the tips of the roots are paralysed. In certain cases barley and peas also improve, but peas are particularly sensitive to boron, and the presence of one part of boric acid in 1,000,000 parts often exerts a toxic action. Mr. T. S. P. Strangeways showed, under the microscope, the various phenomena of cell division in living tissue, and it was highly interesting to observe the whole course of cell division in all its phases; cultures of the choroid placed in a thermostat at body temperature being the living tissue employed. Mr. Strangeways also demonstrated in a series of stained preparations of tissue cultures the effect of exposure to x-rays upon the different phases of mitosis, the lag in the separation of the chromosomes being very marked. Sir Almroth Wright, with Mr. A. Fleming and Mr. L. Colebrook, exhibited a large number of slides demonstrating the growth of pathogenic bacteria in blood and the effect of certain antiseptics, including quinine and iodine, on the growth of staphylococci and streptococci in the blood, showing that no growth takes place when no quinine is present, but in the presence of one part of quinine in 800 parts of blood copious growth takes place; with iodine growth increases progressively on raising the concentration of iodine in the blood from 1:25,000 to 1:400. Another series of slides showed the diminished bactericidal power of blood of a patient after excessive exposure to a carbon arc lamp. An example of somatic segregation was shown by Mr. R. J. Chittenden. The seeds from a *Myosotis*, "Star of Zurich," the petals of which are blue with a white central stripe, were found to give exclusively plants with white petals, showing that the colour factor apparently had not entered into the germ cells.

Pharmaceutical Society of Great Britain

Branch Meetings

Aberdeen.—The Aberdeen and North-Eastern Scottish Branch held their annual meeting at the Gordon Arms Hotel, Inverurie, on April 30. There was a representative gathering, most of the county members coming by train, while several city pharmacists arrived by motor. Vice-President Provost Stewart Taylor met them at the railway station. Mr. W. F. Hay, who occupied the chair, was unanimously appointed Invigilator to conduct the Leverhulme Examination at Aberdeen centre. The chairman then spoke at length on *The Training of Apprentices*. After discussion the following resolution on the subject was framed for Bath Conference:—"That apprenticeship last four years. That compulsory registration as "Apprentices or Students" before commencing work be insisted on; and, simultaneously, a registered "Agreement with the Pharmaceutical Society." That strict supervision of apprentices be exercised in the pharmacies, and reports on their progress sent to the Registrar from time to time, if required. The International Pharmaceutical Questionnaire was remitted to the Executive Committee to deal with, subject to a canvass of individual opinion on the subjects throughout the branch area. Mr. Charles Simpson being in Edinburgh at a Council meeting, the chairman read his "Report on the work of the North British Executive," and it was unanimously agreed to vote for the election of Messrs. Guthrie and Jack on the Pharmaceutical Council. The secretary and treasurer's reports were read and approved, and Mr. M. K. Watt was appointed *Auditor*; Mr. W. F. Hay was again elected *Chairman*; Provost W. Stewart Taylor was re-elected *Vice-Chairman*; Mr. W. Watt was re-elected *Secretary and Treasurer*. All members of the Executive Committee were unanimously re-elected. The next meeting will be held at Aberdeen in October. Mr. H. M. Dugan reminded members of the examination in July for the Petrie Trust Bursary. The meeting concluded with a cordial vote of thanks to the chairman, and the members were then entertained to high tea. The members were indebted to Provost Stewart Taylor for making all hotel arrangements. A visit to and inspection of the historic "Bass" of Inverurie was particularly interesting. (The "Bass" of Inverurie, with the lesser "Bass" or Bailey, strategically situated in the triangle formed by the confluence of the Don and Urie, is one of the finest examples of an early Norman earth castle. Norman castles are usually looked upon as stone and lime structures, but the early Norman castles were made of earth and timber.—Douglas Simpson, "Scottish Notes and Queries." In England the Normans came as conquerors; in Scotland as friends of the Scottish kings (principally David I, 1124-1153), who granted them lands in order that the natives might become civilised under feudal discipline.)

Dundee.—The annual meeting of the Dundee, East, and Central Scottish Branch was held on May 9, Mr. James R. Milne (President) in the chair. Mr. John Anderson (secretary) presented the annual report, and the office-bearers were afterwards re-elected. Delegates were appointed for the Conference at Bath.

Edinburgh.—The annual meeting of the Edinburgh and South-Eastern Scottish Branch of the Society was held at 36 York Place, Edinburgh, on April 30, Mr. Thomas Wilson, Ph.C., in the chair. Mr. John Dall, secretary and treasurer, submitted the annual report, indicating that the activities of the branch were satisfactory. The financial statement showed a satisfactory balance in hand, and the report and financial statement were unanimously adopted. Mr. W. G. McNab, vice-chairman, submitted a report on behalf of the delegates who attended the British Pharmaceutical Conference meeting in London. The office-bearers and Committee were unanimously reappointed as follows: *Chairman*, Mr. T. Wilson, Burntisland; *Vice-Chairman*, Mr. W. G. McNab, Gorebridge; *Secretary and Treasurer*, Mr. John Dall,

1 Lynedoch Place, Edinburgh; *Committee*, Messrs. A. Cairns (Edinburgh), J. H. Fisher (Dunfermline), D. Harley (Musselburgh), J. S. B. Heddle (Leith), R. Marshall (Grangemouth), J. Muir (Edinburgh), P. Nisbet (Leith), H. M. Robin (Edinburgh), F. Stuart (Broxburn), and A. Tweedie (Bo'ness). Mr. David Harley, Musselburgh, was appointed to act as superintendent for the Leverhulme Scholarship examination, to be held in the Society's House in Edinburgh on July 1, 1924. Messrs. J. Gilmour (Dunfermline), W. S. Glass (Edinburgh), J. Henry (Galashiels), W. G. McNab (Gorebridge), W. P. Wilson (Haddington), and Dr. T. Stephenson (Edinburgh) were appointed delegates to attend the British Pharmaceutical Conference meetings in Bath in July. The chairman extended a cordial welcome to Mr. E. T. Neathercoat, the President of the Pharmaceutical Society. In Scotland they were sometimes credited with a certain amount of independence and a desire to have something in the nature of Home Rule, but they were all loyal members of the Society. The President said he desired to refer to the general activities of the Pharmaceutical Society. This was a branch meeting, and he claimed some paternal interest in the branch scheme, which he felt sure would make good. Some said: Why add to the numerous existing organisations for pharmacy? The answer was that the branch scheme alone furnished the necessary machinery for bringing together every member of the Society in a locality. Whether engaged in commerce or as assistants or in any other capacity, they were all pharmacists and required a common meeting ground, a meeting ground, moreover, which included only those who were members or student-associates. Too long persons not members or subscribers had been able to make use of and gain advantage from the Society's work without bearing any share in the expense or labour involved. The bringing of the British Pharmaceutical Conference under the aegis of the Pharmaceutical Society was a significant and important event. Annual conferences would be red-letter days in the history of the Society. He was glad to note that the five Scottish branches were doing well. The same could be said of the 115 branches already established in England and Wales. The scheme would undoubtedly strengthen the membership of the Society. He then went on to discuss the educational policy of the Society. Having regard to the fact that something like 1,600 students registered in one year, it was obvious that they were in a position to steady the stream of entrants to the craft. In medicine new methods of treatment and diagnosis were being introduced. There was a demand for work in bacteriology and in clinical observation and experiments much of which might be done by pharmacists. He thought provision should be made for this in any development of the Major examination, and the degrees in pharmacy which already existed in Manchester and Glasgow and which was being initiated in the University of London would give facilities for training for a sufficient number of pharmacists along these specialised lines. In addition, such University recognition would raise the status of the craft and would reflect on all those belonging to the calling, whether they actually held these degrees or not. He would like to refer also to the issuing by the Society of the British Pharmaceutical Codex. It had been the means of making the Society better known to public authorities. Such a work, bearing the hall-mark of the Society, was one of which all the members, whose property it was, might be proud. Already they had accumulated profits from the publication of the book amounting to between £3,000 and £4,000. This money had been allocated as an endowment fund to the Science Committee of the Council. He had intended speaking on the Parliamentary action of the Society, but would content himself by indicating the need for direct representation of pharmacy in the House of Commons. Many circumstances revealed the high value of having actually in the House a pharmacist who could competently watch over their interests and advocate their claims when occasion arose, and the Council would require to see to it that at no distant date such direct representation was secured. He would touch upon a purely Scottish matter—namely, the Public Health

(Scotland) Amendment Bill just introduced to Parliament. There was a danger of a scheme which would mean pauperising the people on a wholesale scale, and there was need for inquiry as to the whole question of the distribution of medicinal remedies at the expense of the public funds. The matter was one on which it might be necessary to remonstrate with the Government departments and suggest that any such distribution should be through the hands of duly-qualified pharmacists who are specially trained and certificated for discharging an important public duty of this kind. Recently there had been attempts by public departments to proceed on lines which involved the possible watering down of the qualification, and it was necessary to have a united and strong Society for the protection of that qualification. Trade protection was important and essential, but the qualification was the element that distinguished the pharmacist from the ordinary shopkeeper, and the Society alone stood for the protection of that qualification. Dr. J. Laidlaw Ewing said the pleasant duty had fallen to him to propose a vote of thanks to the President. It had been his privilege to be associated officially, now some years ago, with several Presidents of the Society, men such as Michael Carteighe, William Martin-dale, and Walter Hills, who were eminent in their profession. It was matter for rejoicing that the present President of the Society was a lineal descendant of these distinguished men. He discharges the duties of his high office with conspicuous zeal and entire satisfaction to all the members of the Society. He had been particularly interested in what the President had said about education. The Society had always striven to raise the educational standard of the craft, and he was very pleased to notice that this long-established policy was continued up to the present day. The vote of thanks was awarded with acclamation. The questionnaire forwarded by the Council from the International Pharmaceutical Federation anent pharmaceutical specialities was remitted to the Committee for consideration with a view to instructing the delegates who would attend the Bath Conference. On the motion of Dr. Thomas Stephenson, a cordial vote of thanks was awarded to the chairman. The meeting then adjourned to the North British Station Hotel, where tea was provided.

London (N.).—The annual meeting of the North Metropolitan Branch was held at the Connaught Rooms, London, W.C., on May 1, Mr. Arthur H. Jenkin in the chair. After the balance sheet had been passed, it was agreed to seek further to develop the branch by public meetings during the next session. Delegates for the Bath Conference were appointed: Messrs. Hampshire, Tocher, Downing, Rawlins, Jenkin, Corfield, Matthews, and Dow. The officers elected for the ensuing year were: *Chairman*, J. Downing; *Vice-Chairman*, J. T. Walters; *Treasurer*, R. H. L. Watson; *Secretary*, H. Skinner; *Committee*, Messrs. Jenkin, Hampshire, Tocher, Andrew, and Miss Hodgkinson.

Nottingham.—A meeting of the Nottingham Branch was held at the Reform Club on April 30, when a lecture was given by Dr. F. H. Jacob on *The Life and Work of Pasteur*. The lecturer described Pasteur's investigations step by step, beginning with his study of crystals, and his discovery of dextro- and lævo-rotatory tartaric acid. Pasteur's work on the problems of fermentation and the silkworm disease were next detailed, and the events leading up to the first inoculation of a human patient against rabies were described. The lecturer exhibited a fine collection of prints—reproductions of portrait sketches done by Pasteur while still in his teens—which showed that, had he not devoted his genius to science, he might have become a famous artist. The chairman (Mr. Spencer H. Plattin) called for a vote of thanks to Dr. Jacob, which was warmly responded to by the large and appreciative audience.

Oxford.—A series of four lectures on *Food Subjects* as they concern the retail pharmacist has been given by Dr. W. J. Melhuish to the Oxford Branch. They were simple scientific talks on "The Chemistry of Food," "Infants' Foods," "Invalids' Foods," and

"New Theories and Modern Research Work Connected with the Nutrition of Man." At the concluding lecture, held on April 27, Mr. H. C. Goodall, in moving a vote of thanks to Dr. Melhuish, said the members felt they could not let Dr. Melhuish conclude his course of lectures without asking him to accept some tangible proof of their appreciation. He would therefore ask Dr. Melhuish to accept from them, through the chairman (Mr. W. Ambrose), a book entitled "The Charm of Oxford," written by the present Vice-Chancellor, and illustrated by W. G. Blakall, A.R.A., which they hoped would for many years remind Dr. Melhuish of his visits.

Portsmouth.—The annual meeting of the branch was held at the Southsea Club on April 30, Mr. W. R. Atterbury, vice-chairman, occupying the chair. Mr. Ruoff, secretary, reported that the present membership is 117, which includes thirteen student-associates. The balance sheet presented by Mr. W. L. Egerton was adopted. Mr. W. R. Atterbury was afterwards unanimously elected *Chairman* for the year, and in acknowledging the compliment he outlined the future policy of the branch, expressing a strong desire to be of service and help to the coming pharmacists. Mr. W. H. Bown was elected *Vice-Chairman*, Messrs. Ruoff and Egerton were re-elected respectively *Secretary* and *Treasurer*, and Messrs. Gourd and Coates *Auditors*. The *Committee* was elected as follows: Messrs. C. S. Davies (Havant), E. H. Smith and C. Upson (Gosport), Baker, Darling, Fry, Hart, Hemming, Parsons, Postlethwaite, Rhodes and Sparrow. The chairman and vice-chairman were elected delegates to the Conference.

Draft Articles of Agreement

THE following is the text of the draft articles of agreement in respect of pupilage or apprenticeship referred to in our issue of May 10 (p. 667), in the report of the Council-meeting of the Society, but received too late for insertion in that issue.

DRAFT ARTICLES OF AGREEMENT made the _____ day of _____, in the year of our Lord One thousand nine hundred and _____, BETWEEN _____ of _____, in the _____ of _____, Dispensing Chemist (hereinafter called "the said employer"), of the _____ first part, _____ of _____, in the _____ of _____ (hereinafter called "the said Parent or Guardian"), of the second part, and _____ of _____, in the _____ of _____ (hereinafter called "the said pupil"), of the third part, WITNESSETH that the said Pupil of his/her own free will and with the consent of the said Parent or Guardian doth place and bind him/herself Pupil to the said employer to serve him/her from the day of the date hereof for and during and unto the full end and term of years from thence next ensuing and fully to be complete and ended, AND the said Parent or Guardian doth hereby for him/herself, his/her heirs, executors and administrators covenant and promise and agree to and with the said employer his/her executors, administrators and assigns that the said Pupil will faithfully and diligently serve the said Employer as his/her Pupil in the Profession of a Dispensing Chemist from the day of the date hereof for and during and unto the full end of the said term of _____ years; And that he/she the said Pupil shall not at any time during such term cancel, obliterate, spoil, destroy, waste, embezzle, spend or make away with any of the Books, papers, moneys or other property of the said Employer, his/her executors, administrators or assigns or of his/her Partner or Partners or of any of his/her Customers which shall be deposited in his/her hands or which shall come or be entrusted to his/her care, custody or possession and shall not make copies of any books or papers belonging to or in the custody of the said Employer or of his/her Partner or Partners and that in case the said Pupil shall act contrary to the last-mentioned Covenant or if he/she, the said Employer, his/her executors, administrators or assigns or his/her Partner or Partners or all or any of them shall suffer any loss, damage or prejudice by the misbehaviour, neglect or improper conduct of the said Pupil the said Parent or Guardian, his/her executors or administrators shall indemnify the said employer and his/her Partner or Partners and all or any of them therefrom and make good and reimburse to the said employer and his/her Partner or Partners and all or any of them the amount or value thereof. AND FURTHER that the said Pupil shall and

IMPRESSED
STAMP
2s. 6d.

will at all times keep the secrets of the said employer and his/her Partner or Partners and all and every of them and of his/her and their customers and shall not divulge the names or affairs of such customers and shall readily and cheerfully obey and execute his/her and their lawful and reasonable commands and shall not depart or absent him/herself from the service or employ of the said employer at any time during the said term without his/her consent first obtained, but shall at all times during the said term conduct him/herself with all due diligence, honesty and propriety, and further that the said Pupil shall faithfully and diligently attend all such classes of instruction as may from time to time be provided, controlled or approved of by the

Branch of the Pharmaceutical Society, AND the said Pupil doth hereby for him/herself covenant, promise and agree to and with the said employer, his/her executors, administrators and assigns that he/she, the Pupil, shall and will faithfully serve the said employer at all times during the said term as a Pupil ought to do in all things whatsoever, and that he/she, the Pupil, shall and will faithfully and diligently attend all such classes as aforesaid. IN CONSIDERATION whereof and of the sum of, by the said

to the said Employer paid at or before the sealing and delivery of these presents (the receipt whereof the said Employer doth hereby acknowledge) the said Employer for him/herself, his/her heirs, executors and administrators doth covenant, promise and agree to and with the said, his/her executors and administrators by these presents that he/she, the said Employer, shall and will accept and take the said Pupil as his/her Pupil during the said term and shall and will throughout the said term to the best of his/her ability and power afford him/her, the said Pupil, such reasonable opportunities and work as may be required to enable him/her to acquire the art, science and knowledge of a Dispensing Chemist, and shall provide him/her with facilities to attend all such Classes as aforesaid, AND if the said Pupil shall have well and faithfully served his/her said intended pupilage shall and will at the expiration of the said term provide him/her with the Certificate required by the Regulations of the Pharmaceutical Society of Great Britain for the purpose of his/her being admitted as a candidate for the 2nd Part of the Society's Qualifying Examination PROVIDED ALWAYS, AND IT IS HEREBY EXPRESSLY AGREED AND DECLARED between and by the said Employer and the said Parent or Guardian that if the said employer shall die during the said term his/her executors or administrators shall within one Calendar month after his/her death at the option of the said parent or guardian return a proportionate part of the premium, if any, or make due provision for the completion by the said Pupil of the residue of the said term as Articled Pupil to some other Dispensing Chemist without any further expense to the said Parent or Guardian. IN WITNESS whereof the said parties to these presents have hereunto set their hands and seals the day and year first above written.

SIGNED SEALED AND DELIVERED by the said Employer in the presence of

Address

SIGNED SEALED AND DELIVERED by the said Parent or Guardian in the presence of

Address

SIGNED SEALED AND DELIVERED by the said Pupil in the presence of

Address

Draft Memorandum to Accompany Articles of Agreement

It is requested that in filling up articles of pupilage particular attention may be directed to the following points; if this is not done the result may be that an articled pupil is delayed in coming up for his/her examinations and consequent registration as a pharmacist.

- (1) Before articles of pupilage can be entered into the pupil must actually be in possession of a certificate of having passed one of the Preliminary examinations enumerated in the Society's regulations.
- (2) Service under articles cannot commence prior to the date of their execution.
- (3) The articles must be under seal and must be executed by all the parties, each signature being duly attested.

- (4) Articles must be stamped with a half-crown impressed stamp, and registered at the offices of the Society within one month of their execution.
- (5) The form of articles herewith has been drafted to meet the general requirements of the profession, but additional covenants may be provided to suit the circumstances of any particular case.
- (6) When a pupil is of age the parent or guardian need not be a party to the articles, and the clauses referring to them in the draft articles may be struck out. This may also be done when the employer is the pupil's father.
- (7) Finally, a pupil should thoroughly acquaint him/herself with the by-laws of the Society which affect him/her during his/her service under articles.

N.B.—Pupilage must be served in a shop kept open for the retailing, dispensing, and compounding of poisons in accordance with the provisions of the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908, by a pharmacist or by a firm or body corporate entitled to use the title of "Chemist and Druggist," or in the dispensary of a hospital or similar institution approved for the purpose of training pupils by the Pharmaceutical Society.

Pyridinised Spirit

THE following is the "Notice to Makers of Methylated Spirits" which has been issued by the Commissioners of Customs and Excise regarding the change in the composition of methylated spirits which came in force on May 1:—

1. The Commissioners of Customs and Excise hereby give notice that all mineralised methylated spirits made on and after May 1 next must consist of:—

Plain British spirits	... ..	} 90 per cent.
Unsweetened foreign spirits	... ..
Rum	... ..
Wood naphtha or methylic alcohol	... ..	9½ per cent.
Crude pyridine	... ..	½ per cent.

and must contain in addition to this mixture three-eighths of one per cent. by volume of approved mineral naphtha or petroleum oil, and not less than 0.025 of an ounce of aniline dye (methyl violet) for each 100 gallons of spirits.

2. Crude pyridine which conforms to the following specification will be regarded as suitable for making mineralised methylated spirits:—

- (1) It should consist of the bases derived from coal tar, and should not be more deeply coloured than a solution of two cubic centimetres of decinormal iodine dissolved in one litre of water.
- (2) It should mix readily and completely with spirits and should give a clear or only slightly opalescent solution when mixed with twice its volume of water.
- (3) Ten cubic centimetres of a one per cent. solution in water should produce immediately a distinct crystalline precipitate on vigorous shaking after the addition of five cubic centimetres of an aqueous solution of cadmium chloride containing five grams of the anhydrous fused salt in 100 cubic centimetres, and an abundant separation of crystals within ten minutes.
- (4) A white precipitate should be formed when 10 cubic centimetres of a one per cent. solution in water are mixed with five cubic centimetres of Nessler's reagent.
- (5) One cubic centimetre of crude pyridine dissolved in ten cubic centimetres of distilled water should require not less than 9.5 cubic centimetres of normal sulphuric acid for neutralisation, using Congo Red paper as indicator.
- (6) One hundred cubic centimetres slowly heated under the conditions laid down for benzol for motor fuel by the British Engineering Standards Association (B.S. Specification 2 D. 15) should give a distillate of at least 50 cubic centimetres at a temperature of 140° C. and of 90 cubic centimetres at 160° C.

3. Every maker of mineralised methylated spirits must provide in the naphtha warehouse on his methylating premises a suitable vessel of a minimum capacity of 10 gallons for storing the crude pyridine.

4. In all other respects the law and regulations governing the making of methylated spirits remain unchanged.

Exeter Chemists' Dinner

THE Mayor of Exeter (Mr. Philip F. Rowsell), who is President of the branch, occupied the chair at the annual dinner at the Royal Clarence Hotel, Exeter, on April 30, of the Exeter and District branch of the Pharmaceutical Society. He was accompanied by the Mayoress and Miss Rowsell, and among those present were Mr. Edmund White (a past President of the Pharmaceutical Society), Mr. E. Shelton (chairman of the Plymouth Branch), Miss Buchanan (member of the Council of the Pharmaceutical Society), Professor W. H. Lewis (University College of the South West), and pharmacists from Plymouth, Torquay, Ilfracombe, Barnstaple, South Molton, Bovey Tracey, Culmpton, and Exmouth. Mr. Shelton, proposing "The Pharmaceutical Society of Great Britain and Kindred Associations," said the body was one of which they were all very proud, and one which deserved their fullest and most loyal support. He did not think it was perfect, for no organisations were, but whatever little imperfections they might claim against the Society he could say without fear of contradiction that they owed a great deal to it for looking after their interests and welfare in so efficient a manner as had been done. The outstanding feature to-day of the activities of the Society was that it held a higher place in the confidence and goodwill of the country than ever before. He would like to see the Society more adequately represented in the House of Commons, and hoped that in the near future they might have the pleasure of seeing the President of their Society (Mr. Neathercoat) and probably other members of the Council, including their chairman that evening, taking their seats in the House of Commons. The Society's three branches in Devon were very active, and he thought they were unequalled throughout the country. In responding, Mr. White said the Society was quite ready to find the money for a representative of the Society in Parliament if they could find a candidate for such honours and a seat for him, but that was not easy. During recent years changes had been for the good of the Society, and he hoped they would continue to work well. The educational policy of the Council of the Society had been to encourage education and to spend money on it. They could not have education without spending money, but he did not know that they ought to spend too much money. Education in the proper sense of the word could not be paid for out of the fees of the pupils. The Society years ago was spending £2,000 a year upon its school, and that was being continued. The Society would have to drop the teaching of the preliminary sciences and devote its means and energies to promote the establishment of a certain number of technical schools in pharmaceuticals, leaving the pure sciences upon which pharmacy was based to the technical schools and university colleges which were now distributed throughout the country. Replying to the toast of "The Visitors," proposed by Mr. W. W. Pine, Professor Lewis said one of the most interesting things was the manner in which the profession of pharmacy was growing in the estimation of the public. That was no doubt due to the fact that some of their universities were giving degrees in pharmacy. Miss Buchanan proposed the chairman's health, and remarked that if they could carry through the Devon Pharmaceutical Society Scholarship while the Mayor was still in office it would be an excellent thing, and they could do him honour by bringing it to fruition within the next few months. The chairman, in responding, thanked Miss Buchanan for her allusion to the scheme on foot in connection with their South-Western University. He said they hoped to raise a sum of £500 for the scholarship, and he did not mind at all if eventually the school of pharmacy at the Exeter University College was transferred to the medical school to be set up at Plymouth. Though they would be sorry to lose it from Exeter, they must regard it from a broad-minded point of view and look at the South-West University scheme as the matter of greatest importance. They had received £138 towards the scholarship already, and the total ought to be raised without much difficulty during the

next two or three months. The dinner arrangements were excellently carried out by the joint honorary secretaries, Messrs. F. Southerden and A. C. Milton. A pleasing musical programme had been arranged by Mr. E. E. Phillips, and was contributed to by Mrs. E. Milton, Miss O. Bickford, and Mr. J. D. Turney, Mr. R. Rudd being at the piano.

Vinolia Works Visited

ON May 1, about forty Birkenhead and district pharmacists and their ladies accepted the invitation of the Vinolia Company, Ltd., to visit the Vinolia Works, at Bebington, and the soap factory of Lever Brothers, Ltd., at Port Sunlight. The party mustered at Central Station, Birkenhead, and was driven to Port Sunlight in charabancs, which also awaited them at convenient points during the two hours' tour of the various departments. Conducted by members of the chemical staff, the visitors first inspected Lever Brothers' works. In the works of the Vinolia Company the making of powders, tooth pastes, perfumes and pomades was followed with interest. The delicate manipulation required in the construction of some of the containers and beautiful caskets attracted much attention. Among the interesting objects displayed were samples of the pure essential oils, such as otto of rose, oil of jasmine, and many of the rare and



THE BIRKENHEAD PARTY

costly supplies of the perfumer. At the conclusion of the tour the party was entertained to tea in the Hulme Hall, where Mr. F. A. Lawman, vice-chairman of Vinolia Company, welcomed the guests. Brief speeches of thanks to the Vinolia Company and Lever Brothers were made by Mr. F. C. Cooling (President of the Birkenhead Pharmacists' Association) and Mr. W. A. Wynne, both of whom expressed admiration for all that they had seen. During tea there was passed round a proof of the group illustrated taken less than an hour before, and Mr. Wynne, in the course of his speech, described the rapidity and perfection with which the staff photographer had turned out that picture as typical of the whole organisation, whose inspection had afforded such pleasure and interest that afternoon. After tea the party was driven to the Gladstone Hall, where a film was displayed dealing with the growth, collection and preparation of oil-bearing materials. The Lady Lever Art Gallery was then visited, and there the party spent about an hour in viewing the collection of British pictures, furniture and pottery and the unique collection of Oriental porcelain.

RUSSIAN LINSEED.—In consequence of the poor yield of the last Russian linseed crop, which has resulted in an acute shortage of seed in the State oil mills, the Soviet Commissariat for Economics is urging the Commissariat for Foreign Trade to prohibit the exportation of linseed until the sowings are completed. However, it is proposed not to extend this prohibition to the districts of the Ural, Siberia and the Kirghiz, where the linseed crop is expected to yield a total of 2,500,000 to 3,000,000 poods.

Wine-Licences Appeals

THE first sitting of the tribunal set up by the Northern Irish Government to hear claims *inter alia* of chemists for compensation for the loss of their wine licences under the Intoxicating Liquor (Northern Ireland), 1923, Act, was held in Belfast on May 9. The Recorder of Belfast (Judge Thompson) presided, and with him were Mr. James Roche, R.M., Mr. Thos. Brown, J.P., Mr. Alexander Miscampbell, J.P., and Mr. R. J. Walsh. The chairman said that the majority of the claims related to spirit groceries. There was also a large number of claims by chemists, whose case was dealt with in Section 12 of the Act. Their claims were for loss of profits by reason of the deprivation of their wine licences. A good many of the cases, he expected, would give rise to no great difficulty, either in law or in fact. There were other cases in which there would be difficulty. They wished, in the first instance, to hear some cases which would assist in laying down principles for the guidance of the claimants and of the commissioners. As regards areas outside Belfast, separate tribunals would be set up of which due notice would be given. Mr. H. Warnock, B.L., said he appeared in a number of chemist cases. He did not think any question of difficulty would arise in the great majority, except this—the question of what proportion, if any, of the establishment charges should be set against the gross profits of the chemist's business. There were, as the tribunal would appreciate, very special circumstances in reference to a chemist's wine licence. The proportion of his sales of wine to his gross turnover was a very small matter. The chairman: That will be a question affecting how much should be put against overhead charges for wine business. Mr. Warnock said he mentioned the matter—other chemists would be represented by other counsel—because if the principle were established in the earlier cases, unless there were great difficulties in the facts, they would probably rule the majority of the other cases.

BASIS OF COMPENSATION

The best course would be to take the cases in order, and the decision of the Court should be held over on the point of the basis of compensation as to the overhead charges. That would give his friends who represented other chemists another opportunity to put their views before the tribunal, for he understood there was no appeal from the decision of the tribunal. In reply to the chairman, who asked if he had satisfied himself that chemists are entitled to claims, Mr. Warnock replied: "I have. I hope I will not have any difficulty in satisfying the tribunal." The case of Mr. W. J. Hardy, trading as Davidson & Hardy, chemists, 20-22 Castle Place, Belfast, was then called. Mr. G. Hanna, M.P. (instructed by Mr. B. Campbell) said he represented the Licensed Vintners' Association. Mr. Warnock: I object to Mr. Hanna appearing on behalf of a number of on-licence holders in a chemist's case. The chairman: On what ground? Mr. Warnock: On the ground that he is not an interested party. The chairman: I understand he appears to argue in support of keeping down the compensation. Mr. Hanna: We are supplying indirectly the money my friend is looking for. I say we are interested, but the parties for whom I appear are not anxious to be vindictive. They only wish to assist the Court in arriving at a fair and reasonable determination. Mr. Warnock submitted this was not an arbitration between the publicans and the chemists. Although the publicans had to provide part of the money, he submitted Mr. Hanna should not be heard, but it was a matter for the discretion of the Court. The chairman said Mr. Hanna might assist in dealing with the merits upon the evidence or arguments put forward on behalf of persons who had to find the money—viz., of remaining licence holders. He ruled that Mr. Hanna could be heard, for he represented a substantial number of those licence holders. Mr. Warnock next raised the point that in all these cases there was a certain amount of information which in the ordinary way was treated as confidential—matters which

business men did not want publicly discussed. If the members of the tribunal had the figures before them he would suggest that, as far as possible, information concerning income-tax assessments, profits, etc., which they did not want to be discussed with any great publicity, should not be so discussed. He would simply refer to the figures as they appeared before the tribunal.

The chairman.—Subject to the proper hearing of the claim.

THE FIRST CLAIM

Mr. Warnock then opened the case for Mr. Hardy, who had held a wine retailer's off licence. The figures arrived at between his accountants and the accountants of the tribunal had been agreed on. The average profits for the period of three years, £46, and five times that, viz., £231 1s. 8d., was the sum claimed. The sale of wine was almost a negligible portion of the business, but the question he would have to argue was whether he had presented the proper method of arriving at the figure. Mr. Warnock went on to refer to section 12, which provided that nothing in the Act would prejudice or affect the granting of any licence under the provisions of section 9 of the Finance Act, 1911, or the sale of any spirits mentioned in the said section by a person authorised; or the sale of medicated spirits, or spirits, or spirituous liquor by any qualified medical practitioner, chemist, or druggist. Notwithstanding anything contained in the Act, a licence might be granted to a duly registered pharmaceutical chemist for the sale of wines by retail for consumption off the premises by order of a medical practitioner. Counsel said that that showed that a wine licence could be got by a chemist in the same way as before by applying to the Custom House. In regard to the case before the Court, counsel said that under the terms of the Act the gross profits had been furnished to the accountants, together with the exact amount of wine purchases. These had been examined by the accountant appointed by the Ministry. Nothing had been allowed for overhead charges, and he submitted that the gross profit was the basis on which compensation ought to be assessed. Counsel proceeded to argue that chemists were entitled to compensation under the Act. It was clear from the general scope and intention of the Act they were. In Section 3 the only difficulty facing chemists was the words with reference to renewal at the annual licensing sessions. In the case of chemists there was no renewal. Chemists never had at any time to apply at the licensing sessions. The licence was granted at the Custom House without any application whatever to any Court. He submitted that that point should not be interpreted against the chemists. The Recorder.—Have you any authority to show me? Counsel.—I have not. The Recorder.—Your contention is really that it was an oversight? Counsel.—During the discussion of the Bill.—The Recorder.—That can't be argument. We can't go into that. Counsel.—This Bill was framed for the particular purpose of hitting a particular class—the spirit grocers. The subsequent consideration of the chemists being brought in was an oversight and omission. Section 12 made it clear that chemists, with others, are equally to be entitled to compensation. Where a chemist or chemist and druggist obtains the renewal of a licence for the sale of wine by retail for consumption off the premises . . . compensation shall be payable to such chemist and druggist in like manner as if the said licence were not renewed at the annual licensing sessions after the passing of that Act. The Recorder.—Isn't that nonsense? You have just said they didn't have to go to the licensing sessions. After further argument the Recorder asked, was counsel's suggestion that the legislature had not taken into consideration the question of the wine retailer's off licence? Counsel.—I can hardly put it so far as that because it is specifically mentioned in Section 12. The recorder asked, did it amount to this, that compensation was only payable on licences renewable at the annual licensing sessions? Counsel.—Section 2 abolishes all off-licences—all off wine licences. In the course of further argument counsel admitted there was bad draftsmanship in the Act. In reply to the Recorder, Mr. Hanna, for the Vintners, said that they recognised it was the intention of the legislature that chemists should be compensated, and he

had no observation to make. The Recorder said they would reserve the point and hear the facts of Mr. Hardy's case. Mr. Hardy, in reply to Mr. Warnock, said his claim was based on the gross profits. The proportion of wine sales to the ordinary business was one per cent. Counsel.—Are your premises the best situated in Belfast? Mr. Hardy.—They are very central. The Recorder.—Hardly worth taking compensation for? (Laughter.) Mr. Hardy, proceeding, said his overhead expenses were not reduced by one penny by the loss of the wine business. He did not take out a limited licence under section 12. The Recorder.—We reserve the question whether a claim arises, and also of the amount.

The claim of Mr. W. E. Wilson, R.D., North Street, Belfast, was then heard. Mr. Warnock said the total amount of the claim was £590 12s. 1d. The average was £118 2s. 5d. No separate accounts had been kept, and there was no challenging of the figures by the accountants of the tribunal. The only question in the case was whether gross profits were to be taken or what deductions were to be made. In this case Mr. Wilson also carried on business as a grocer. The proportion of wine sales was very small. Mr. Wilson, in his evidence, said there had been no reduction in his overhead charges by the loss of the wine business. He was not a dispensing chemist, and did not therefore get prescriptions for wine. In reply to the Recorder, Mr. Wilson defined the differences between pharmaceutical chemists, chemists and druggists, and registered druggists. The Recorder said the proportion of wine turnover in the business was, roughly, 2 per cent. "Do you say, Mr. Warnock, your client is a chemist, or chemist and druggist? What is he? Look at Section 12. 'Notwithstanding anything contained in this Act, a licence may be granted to a duly registered pharmaceutical chemist or chemist and druggist.' Is he not a registered druggist?" Mr. Warnock: The definition of chemist includes registered druggist. The Recorder: The only question is to what extent, if any, overhead charges should be deducted in respect of the sale of wines. We will give judgment later. In the claim of Mr. I. W. Nicholl, Ph.C., 25 High Street, Belfast, Mr. B. J. Fox, for the applicant, said that their figures had been accepted by the accountants for the tribunal. Mr. I. Nicholl said the trade in wine was small, and the overhead charges were still the same. The average gross profit on wine was £20 17s. 5d. The total claim was £104 7s. 1d., including the apportionment charges. On the general question, Mr. Fox argued that chemists were entitled to compensation. Having regard to Section 12, it was clear by implication that compensation was intended to be paid to any chemist who abandoned his licence. The draftsman did not apparently know that it was not the law that chemists should apply at the annual licensing sessions; they had to go to the Custom House instead. Judgment was reserved. The claim of David Henderson, Ph.C., 549 Lisburn Road, was next heard. It was £250 19s. 7d. Mr. Fox said the percentage average of wine to the total turnover was 6.75 per cent. Mr. Henderson said his overhead charges were the same to-day. He did not attribute any of the overhead expenses to the extent of his wine business. In the case of Andrew McNaught, Ph.C., 5 Bridge End, Mr. Warnock said there had been no professional assistance in the preparation of the accounts. No separate account had been kept. After further evidence the Recorder said that the claim had been made up on a wrong basis, and it would have to stand over. George A. Scott, Ph.C., 309 Antrim Road, claimed £241 compensation. Mr. Warnock, for the applicant, said he had only been carrying on business for one year. Assuming that the claimant was entitled to bring the claim in that way, he was entitled to five times the average profit for three years. The proportion of wine sales to the ordinary turnover was rather larger in this case than in the others, being 11.7 per cent. A proportionate part of the overhead charges had been charged against the wine profits. Claimant having given evidence, Mr. Muir, accountant, proved the figures in the claim; £20 was apportioned against wine, and if that had not been done the wine profits would have been £20 more, or £100 for the five years. Mr. Roche: Is £20 a reasonable sum? Witness: It is the exact proportion. Mr. Roche: Is it a proper basis? Witness:

There is no saving in expenses to him because of the doing away of the wine business. Counsel asked liberty to amend the claim by adding £100. Mr. Barron, the previous owner of the business, said in his time he calculated the proportion of wine sales to the turnover was 10 per cent. Judgment was reserved.

CHEMISTS' ELIGIBILITY TO CLAIM

At the sitting of the Court, on May 12, ruling was made on the question of eligibility of chemists to claim. The Recorder said that the tribunal ruled that chemists should be admitted to claim, even although Section 3 laid down a certain criterion which was not strictly applicable to the chemist's business. As regards the general question of the overhead expenses, the tribunal did not lay down any general rule as regards every chemist's business, because obviously circumstances might differ. They thought, in the first place, it would not be right that no proportion of the overhead charges should be charged against the wine business; but as in most of the chemists' cases the wine business was a side track, and not the main business, they thought it would not be right to charge the full proportion of the overhead charges which purchases of wine bore to the purchases of other goods. As a kind of rough working ruling they suggested that where the purchases of wine did not exceed 10 per cent. of the purchases of other goods, one-third of that proportion of the overhead charges should be charged against wine. If the proportion of wine to other business lay between 10 and 25 per cent., they thought that two-thirds of the proportion should be charged against the wine, and that, if it was over 25 per cent., the full proportion should be charged as against the wine. It should be remembered that that applied to the chemists only, and not to the spirit grocers. It was merely a rough working rule and some kind of guide to the parties, but it lay with the Court, in any individual case, to vary it if it became necessary. Mr. Warnock (for a number of chemists) said that the figures had not been put in by the parties on that basis in the majority of cases. Would the Court require that they should be so put in? The Recorder said he did not think it was necessary there should be any special amendment made in the claims. It would, however, be a convenience if counsel in presenting the cases would work out the figures adopting the basis he had indicated.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (is, each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Film Developing Dish.—A dish having a semi-cylindrical bottom, the two opposite sides of which slant upwards and outwards. (A. Leigh. 213,973.)

Vaporiser.—An apparatus for producing medicinal vapours, such as mercury vapours, admixed with heated air, provided with an electric heater. (C. Engelbreth. 197,946.)

Calcium Caseinate.—A process for separating calcium caseinate from skimmed milk by adding an excess of calcium oxide, followed by treatment with hydrochloric acid. (H. R. Marston. 213,962.)

Fire Extinguisher.—A preparation for extinguishing fire, consisting in a mixture of ammonia, or an ammonia salt, a halogen derivative of a hydrocarbon and aniline or other organic base. (J. L. Fohlen. 205,110.)

Arsenobenzene Derivatives.—A process for preparing arsenobenzene derivatives yielding stable solutions, by combining a formaldehyde-bisulphite compound of an amino-arsenobenzene with an amino-arsenobenzene. (Farbwerke vormals Meister Lucius & Brüning. 204,721.)

Synthetic Menthol.—A process for the manufacture of synthetic crystalline menthol, consisting in hydrogenating thymol and mixing a quantity of the liquid constituent of the product of hydrogenation with thymol, followed by renewed hydrogenation. (Howards & Sons, Ltd., and J. W. Blagden. 213,991.)

Trade Report

The prices given in this section are those obtained by Importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, May 15.

BUSINESS conditions in the produce markets have shown little improvement during the week, the general position being overshadowed by the European political situation and the relapse in the value of the franc. Confidence in the sugar market has been undermined by the revised estimates of the Cuban crop and the release of German sugar for export; prices have now undergone a considerable decline since the Budget announcement. Menthol on the spot has suffered a decline of about 5s. per lb., owing to cheap Continental offers. Japanese demethylised mint oil is also lower for the same reason. Japanese camphor slabs have declined a further 2d. per lb. and crude Chinese is also easier. Agar agar continues in fair demand; balsam tolu is easier, and jalap is firmer in the absence of spot supplies; offers of new crop cascara sagrada about to be peeled are being made by "bear" sellers. The seed market still continues quiet, about the only change being a decline in coriander. Among industrial chemicals, the demand is still confined to a few products only, but market prices are fairly steady. In cream of tartar a fair business has been done at full rates; lead products are again lower, these including red and white lead and litharge. Sodium hyposulphite is a trifle easier. Carbolic acid crystals again tend cheaper; pyridin is very dear and still on the upward trend; solvent naphthas are firmer. Arsenic is again lower. Pharmaceutical chemicals show little change in demand and prices, many items being subject to keen competition. Morphine and salts and codeine and salts have been reduced by 1s. to 1s. 3d. per oz. by makers. Citric and tartaric acids are in fairly good demand, and the latter in particular is tending firmer. Bromide salts are still unsteady, but the decline in value appears to have been checked. Hydroquinone is one of the few outstanding items that is firm. Soda tartarata and pulv. seidlitz have been in good demand.

Higher	Firmer	Easier	Lower
Farina, Dutch Juniper-berry oil Sodium acetate	Citronella oil (Jv.) Gingergrass oil Jalap Naphtha (solvent) Palm oils	Acetanilide Anise (star) oil Balsam tolu Bois de rose (femelle) oil Campher (17% ref. slabs) Carbolic acid crystals Maize starch powder Pepper, white Peppercorn (Para.) Shellac Soda hypo. Soya oil Turpentine	Arsenic Codeine and salts Coriander seed Gambier Lemongrass oil (Cochin) Menthol Morphine and salts Mint oil (Jp.) Rape oil Red and white lead Rubber Sugar White oil ^s

Cablegrams

NEW YORK, May 15.—Business is fair. Cascara sagrada has advanced to 37c. per lb. Corrosive sublimate is dearer at 98c., likewise calomel at \$1.22, and white precipitate at \$1.39 per lb. Menthol has declined to \$13.00 and peppermint oil to \$4.30. Belladonna root is cheaper at 11c. and belladonna leaves have been reduced to 25c. Antipyrine is lower at \$2.10 per lb.

BERGEN, May 14.—The total catch of cod for the whole of Norway since the opening of the season amounts to 48,300,000, against 42,100,000 for the corresponding week of last year, and the yield of steam-refined medicinal

oil is 87,576 hectolitres, against 74,838 hectolitres last year. Finest new non-freezing medicinal oil is steady at about 92s. per barrel, c.i.f. principal U.K. ports.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	May 7	May 14
Amsterdam	Fl. to £	12.107	11.68½—11.69	11.69½—11.70
Berlin	M to £	20.43	18½—19 billions*	18½—19 billions*
Brussels	Fr. to £	25.22½	84—84½	86½—86½
Calcutta	Per rup.	24d.	16½d.—16½d.	16½d.—16½d.
Christiania	Kr. to £	11.159	31.45—31.48	31.45—31.50
Constantinople	Pst. to £	110	800—820	808—818
Greece	Dr. to £	25.22½	204—207	214—216
Italy	Lire to £	25.22½	97½—97½	97½—98½
Kobe	Per yen	24.58d.	21½d.—22d.	22½d.—22½d.
Lisbon	Escu.	53½d.	1½d.—1½d.	1½d.—1½d.
Madrid	Pts. to £	25.22½	31.63—31.66	31.45—31.48
Montreal	\$ to £	4.86½	4.45½—4.45½	4.44½—4.44½
New York	\$ to £	4.86½	4.38½—4.38½	4.36½—4.37
Paris	Fr. to £	25.22½	67.60—67.70	73.40—73.50
Singapore	Per dol.	27½d.	28½d.—28½d.	27½d.—28½d.
Switzerland	Fr. to £	25.22½	24.63—24.65	24.66—24.68
Vienna	Kr. to £	24.02	310,000—313,000	309,000—312,000

* Nominal.

Revue des Marchés

Sommaire des principaux mouvements des prix des drogues, essences, produits chimiques et pharmaceutiques sur le marché de Londres.

Abréviations d'usage employées pour indiquer les mesures de poids et de capacité:—Ton = 1016 kg.; Cwt.=50,8 kg.; lb.=453 gr.; oz.=28,34 gr.; Gal.=4546 c.c.

PENDANT la semaine qui vient de s'écouler les affaires, en général, ont été extrêmement faibles. La cause peut en être attribuée à la situation politique européenne, et au fléchissement du cours du franc. Le menthol disponible a baissé d'environ 5s. la lb., sans activer la demande. On signale de nouveau un recul dans le cours du camphre du Japon, de 2d. la lb. Les producteurs annoncent une avance dans le prix de l'essence de géranium (Bourbon); l'essence de badiane a maintenu son prix. En poivre blanc, on constate une intensification de la demande. En produits chimiques industriels, bien que le marché ait été soutenu, les transactions se sont limitées à quelques produits seulement, notamment la crème de tartre. Les sels de plomb ont baissé de nouveau; l'hyposulfite de sodium est en tendance faible, ainsi que l'acide phénique cristallisé. La pyridine est assez rare et le prix continue à hausser. Peu de mouvements à signaler en produits pharmaceutiques. Les fabricants annoncent une réduction de 1s. à 1s. 3d. la oz dans les cours de la codéine, de la morphine et des sels de morphine. La demande pour l'acide citrique et l'acide tartrique est satisfaisante, aussi l'acide tartrique notamment est en tendance ferme. Les cours des bromures sont encore sujets à des fluctuations, pourtant on a l'impression que le recul des prix tend à disparaître. On signale une intensification de la demande pour l'hydroquinone, dont le prix reste très ferme.

Zum Marktbericht

Überblick über die wichtigsten Preisveränderungen auf dem Londoner Drogen- und Chemikalienmarkt.

Abkürzungen:—Ton=1016 kg; Cwt.=50,8 kg; lb.= 453 g; oz.=28,34 g; Gal.=4546 ccm.

AN der allgemeinen Geschäftslage auf dem Markte hat sich wenig geändert, denn die Absatzverhältnisse werden von der auswärtigen politischen Lage und dem Frankenzustand ungünstig beeinflusst. Der Preis für Menthol, Lokoware, ging um etwa 5s. das lb. zurück, ohne die Nachfrage zu beleben; Japankämpfer erfuhr eine weitere Preismässigung, und zwar um 2d. das lb. Man meldet höhere Forderungen von Seiten der Erzeuger von Geraniumöl (Bourbon); Sternanisöl war unverändert. Weisser Pfeffer wurde neuerdings mehr begehrt. Für Ingwer herrschte lebhafter Nachfrage; Zimmt war etwas höher bewertet. In Schwermetallen hielten im allgemeinen die Preise ihren Stand, doch beschränkten sich die Umsätze auf einige wenige Produkte, insbesondere Weinstein. Die Notierungen für Bleisalze gingen weiter zurück; Antichlor und Karbolsäure, cryst., neigten nach unten; dagegen ist Pyridin knapp und weist eine fortschreitende Hausse

auf. Pharmazeutische Produkte lagen ruhig. Die Fabrikanten haben ihre Preise für Kodein, Morphin und Morphinsalze um 1s. bis 1s. 3d. die oz. ermässigt. Zitronensäure und Weinsäure wurden stärker gesucht, wobei besonders letztere eine festere Tendenz aufweist. Bromsalze verkehrten weiter unregelmässig, doch kann gesagt werden, dass die jetzigen niedrigen Notierungen wohl den Tiefstand darstellen. Für Hydrochinon herrschte grössere Nachfrage, bei sehr fester Tendenz.

Crude Drugs, etc.

AGAR AGAR is in fair demand, No. 1 Kobe strip selling at from 5s. 6d. to 5s. 7½d. per lb. on the spot.

ANNATTO SEED is steady, with fair supplies available, new crop Madras or Jamaica offering at from 1s. 5d. to 1s. 6d. per lb., according to quality. Forward business is at a standstill, as most of the supplies from primary sources have been disposed of.

ANTIMONY.—While American reports are still weak, the tone here is a trifle steadier. English refined is quoted £49 10s. to £50 on the spot, and £41 is being asked for Chinese ex warehouse, although offers for forward shipment are reported at around £33 c.i.f.

BALSAMS.—*Tolu* continues neglected, spot sellers quoting about 6s. 9d. per lb., being slightly easier. *Canada balsam* is firmer to come forward, and on the spot the full price of 6s. 6d. per lb. is obtainable.

CADMIUM is very steady on the basis of about 2s. 6d. to 3s. per lb.

CAMPHOR (CRUDE) is offered on the spot at 2s. 8d. per lb., and for May-June shipment 2s. 7d. c.i.f. is quoted.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs offer at 2s. 10d. per lb. and flowers at 3s. 10d.; ¼-oz. tablets can be had at 4s. 1½d. per lb.

CANNABIS-INDICA is very scarce on the spot, sellers quoting 24s. to 25s. per lb. for Bombay tops. African is 3s. 6d. to 6s. 9d.

CASCARA SAGRADA.—Speculative offers of the new crop, peeling of which will commence in May-June, are being made at 102s. 6d. per cwt. c.i.f., but no interest is displayed at this price, although, of course, it is relatively cheap compared with the London spot price of 165s. per cwt.

CHAULMOOGRA OIL.—Guaranteed genuine *Taraktogenos Kurzii* is offered at 2s. 11d. per lb. c.i.f., and *Hydnocarpus Wightiana* at 1s. 1d. per lb. c.i.f., in minimum lots of ten cases.

CLOVES.—Zanzibar continue quiet, with spot sellers at 11d. to 11½d. per lb. To arrive, sellers offer April-June shipment at 11d. c.i.f., and October-December at 8½d. c.i.f. The weekly wharf statistics show that the landings were 1,111, while the deliveries were 1,350 bales, leaving a stock of 38,754 bales, against 13,190 bales in 1923.

COD LIVER OIL.—Our Bergen correspondent writes on May 12 that the codfisheries at Finmarken continue with favourable results. Up to May 3 such a fair result as that of this year has not been obtained since 1912, viz., 9,700,000 cod, with a yield of 9,000 hectolitres of oil. The total output of all the codfisheries of Norway compared with that of the previous years is as follows:—

		Catch of cod	Steam refined cod liver oil	Livers for crude oils
To May	3, 1924 ..	44,100,000	83,333 hectol.	12,817 hectol.
"	5, 1923 ..	40,300,000	72,263 "	15,415 "
"	6, 1922 ..	37,000,000	64,081 "	12,130 "
April	30, 1921 ..	33,700,000	51,808 "	9,613 "
May	1, 1920 ..	31,200,000	46,615 "	4,963 "

Finest non-freezing steam-refined quality is quoted at 92s. per barrel c.i.f. London, an advance in the price of unfiltered having taken place recently.

COSTUS ROOT.—Genuine Kashmir is offered for May-June shipment at 7s. 6d. per lb. c.i.f.

GINGER has been selling more freely of late, and washed rough Cochin, which is scarce, realises 95s. per per cwt., and for January-March shipment 85s. c.i.f. Sierra Leone, which shows a decided improvement in quality this season, is quoted on the spot at from 72s. 6d. to 73s. 6d. per cwt., and competes well in price, being superior to Cochin, both in flavour and colour. Jamaica is unaltered at from 170s. to 190s.

HENNA.—New-crop South Indian leaf is quoted at 5½d. per lb. c.i.f. to arrive.

INSECT FLOWERS.—Good small closed Dalmatian flowers offer at 290s. per cwt. c.i.f. to come forward.

JALAP is firmer and very difficult to buy on the spot, owing to scarcity. To arrive, 1s. 5d. c.i.f. is quoted for 11 per cent.

KAMALA.—Good-quality powder (ash 10 to 12 per cent.) is quoted for May shipment at 2s. 5d. per lb. c.i.f. A large quantity of highly adulterated powder is on the Indian market.

MAGNESIUM.—There continues to be a regular outlet for the supplies available, and quotations for sticks range from 3s. 3d. to 4s. per lb., while powder is about 4s. 6d. to 5s. 6d. per lb., according to quality and quantity.

MENTHOL has been pressed for sale from the Continent this week, and this, together with the absence of support by consumers, has led to a decline to 58s. per lb. for Kobayashi-Suzuki on the spot. To arrive, May-June shipment is quoted at 56s. per lb. c.i.f.

MERCURY has sagged almost daily, not because of any change in the general position, which is remarkably healthy, but on account of the fact that the larger consumers had made good provision for their needs when the recent upward movement commenced. There has been a lull in the general demand, but how long it will last remains to be seen. In the meantime cheaper c.i.f. offers for forward shipment have been reported from Italy at about £13 to £13 5s. per bottle net. Terms on the spot on Wednesday stood at about £13 5s. to £13 7s. 6d. per bottle, less the usual discount, and the supply of resale lots offering is not very important. Certain dealers suggest that it would require but few important new orders to put up prices again. Our imports last month were considerably larger at 6,289 bottles, making a total of 9,361 bottles for the four months, compared, however, with 14,391 bottles for the same period last year. On Wednesday it was stated that the Spanish price had been advanced 10s. to £14 per bottle net ex mine.

MUSK.—Genuine Assam in original pods is quoted for prompt shipment at 63s. per oz.

OLIVE OIL.—Italian extra cream is quoted at from 7s. 6d. to 7s. 9d. per gallon c.i.f.

PEPPER is quiet, with fair black Singapore offering on the spot at 5d. per lb. Sellers of May-July and June-August shipment quote 4½d. per lb. c.i.f. for f.a.q. Lampung is 5d., Tellicherry 5d., and Alleppy 4½d. per lb., all spot. White Muntok is lower at 7½d. per lb. spot, and May-July shipment has been sold at 7½d. to 7½d. c.i.f.

PIMENTO is dull of sale at 2½d. per lb., and to arrive 22s. 6d. c.i.f. is quoted.

RUBBER has experienced a further severe reverse, and prices have dropped fully 1d. per lb. during the past few days. It is very difficult to trace the reason for the very heavy liquidation of the near and forward positions, which has been the chief cause of the decline. The market, which has been exceedingly quiet for some weeks past, completely failed to absorb the heavy quantities which were being offered. America and the East immediately followed London's lead, and dropped their prices accordingly. At the close 10½d. per lb. was the price realised for standard grades, and as the pivotal price at which the restriction scheme was based was 1s. 3d., it is difficult to imagine what action will be taken by the authorities as a result of this further decline. The complete failure of the scheme to prevent such heavy fluctuations is regarded by the trade with a certain amount of apprehension. Quotations (Wednesday, 5 p.m.):—No. 1 standard crêpe and ribbed smoked sheet, 10½d.; June, 10½d.; July-September, 10½d.; October-December, 11½d. per lb. The London stock now stands at 54,546 tons.

SEEDS.—The market still continues quiet, with prices unchanged. The following are spot prices:—CANARY SEED has been sold at 28s. to 28s. 3d. per cwt. for Mazagan, and is now held for 28s. 6d. CORIANDER SEED, sound Morocco, has sellers at 28s. per cwt.; CUMIN SEED, Malta 115s., Morocco 110s.; DILL SEED, 20s. to 21s.; FENNEL SEED, Indian 38s. to 40s.; FENUGREEK SEED,

MOROCCO 22s. per cwt.; HEMP SEED, Manchurian 17s. to 22s.; LINSEED, Morocco 27s.; MUSTARD SEED, English 36s. per cwt.

SENNA.—The new Tinnevely crop badly needs rain, and plucking has temporarily ceased on this account (says a Calcutta advice of April 24). The colour of the leaf is also suffering for want of rain. Supplies are coming in very slowly, and producers are still experiencing labour difficulties on account of plague, which is still raging in the South of India. Further shipments in one quarter are not guaranteed until the end of May or beginning of June. Prices have advanced considerably, and Tinnevely new crop assortment, made up in the following proportions, is offered at: No. 1, 30 per cent.; No. 2, 30 per cent.; No. 3, 40 per cent. at 6½d. per lb. c.i.f.

SHELLAC has been dull and easier, with but little activity in forward positions; deliveries from warehouses have been on a good scale so far this month. The outlook is very uncertain, with usual standard TN orange quality closing at 260s. per cwt.; fine to superfine second orange is 300s. to 360s., AC cakey 275s., and GAL 270s. Sales for delivery include TN, May, at 242s. 6d., and for August at 242s. 6d.

STARCH PRODUCTS.—Dutch farina is dearer at 20s. per cwt. on the spot, and 21s. per cwt. f.o.b. is quoted for prompt shipment. American maize starch powder is lower at 16s. 6d. per cwt. on the spot, and Dutch is 17s. 9d. Dextrin is 22s. 3d. for superior Dutch and 21s. 3d. for No. 2 on the spot. American canary is 19s. 3d., and white 19s. on the spot. Best rice starch crystals offer at 40s. for English, 33s. 6d. per cwt. for Continental, and 21s. for American on the spot.

SUGAR.—The market all round was decidedly flat under most depressing American reports, and Cuban crop developments, indicating a much larger yield than anticipated. The latest estimate of Mr. Himely is as much as 3,985,000 tons, compared with Guma's estimate of 3,900,000 tons. On the basis of the average of such estimates the yield would thus show an excess of well over 300,000 tons against the previous season's yield. With considerably more sugar in sight and a dragging demand, prices could not help but fall. Following on two reductions last week of, together, 2s., British refiners cut their prices another 1s. per cwt. on Tuesday this week; Tate's cubes stand at 44s. 3d. to 45s. 3d., and fine granulated at 42s. 1½d. White sugar futures were flat in sympathy with New York, and show on the week a drop of about 1s. 3d. for near positions; Wednesday's closing prices were for May 25s. 3d., August 23s. 4½d. (paid), and October-December 21s. 4½d., the latter comparing with 21s. 10½d. a week previous.

TURMERIC.—In London, fair Madras finger is offered at from 72s. 6d. to 75s. per cwt., on the spot.

WAX, VEGETABLE.—Spot stocks of Japanese appear to be exhausted, and the price is nominal at 100s. per cwt.

Essential Oils

BUSINESS is dull, the chief point of interest being the decline in Japanese mint oil, sellers in Hamburg wishing to realise stocks. Juniper-berry oil has been in demand and is dearer. Gingergrass after a long period of inactivity has also been selling more freely. Java citronella is dearer. Star anise, bois de rose (femelle) and Paraguayan petitgrain oils are cheaper. Cocin lemongrass is lower.

ANISE (STAR).—"Red Ship" is inactive and nominal on the spot at 2s. 6d. to 2s. 7d. per lb. Business has been done at 2s. 5d. per lb. c.i.f. for May-June shipment, 2s. 4½d. c.i.f., is quoted as the nominal value.

BERGAMOT is unchanged for 37 to 38 l.a. at from 17s. 9d. to 18s. per lb. on the spot. Up to 18s. 9d. c.i.f. is quoted to arrive.

BOIS DE ROSE (FEMELLE) is cheaper, spot holders offering at from 19s. to 20s. per lb.

CARAWAY.—Makers are inclined to maintain prices, although bids below current quotations may be accepted. For actual spot, double-rectified is quoted at from 36s. to 37s. 6d. per lb., and crude at from 34s. 6d. to 36s., according to quantity.

CASSIA on the spot is inactive and nominal at 8s. per lb. for 80 to 85 c.a.

CITRONELLA.—Ceylon is quiet on the spot, with sales at 3s. 6d. per lb.; May-June sellers quote 3s. 4½d. c.i.f. Java

has been active on the spot with 5s. 1d. paid, and no more offering at the figure. Holders now ask 5s. 2d. The price quoted for June-July is 5s. to 5s. 1d., c.i.f.; for parcels afloat 5s. 1d. is quoted.

GERANIUM.—Bourbon on the spot in small lots is quoted at 35s. to 36s. per lb.; the same price is asked for parcels near at hand.

GINGERGRASS.—A fair demand on the spot has reduced stocks of the "insoluble," and 7s. 6d. per lb. is reported paid.

JUNIPER BERRY.—B.P. oil has been in fair demand and is dearer for good quality oil; from 4s. 9d. per lb. upwards is now asked.

LEMON on the spot is unchanged, with sellers at from 3s. 3d. to 3s. 6d. per lb. as to brand. The price for shipment is as last quoted at about 3s. 5d. to 3s. 6½d. per lb.

LEMONGRASS.—Cochin is cheaper on the spot at 3s. 7d. per lb.; the price for shipment is cheaper at 3s. 5½d., c.i.f.

LIME.—West Indian distilled has been sold on the spot at 5s. per lb. Hand-pressed is quiet and unchanged at 9s. to 9s. 6d.

MINT.—Hamburg, after buying for a considerable period, has sent out offers of Japanese dementholised Kobayashi-Suzuki dementholised oil at below market prices. As a result the market is stagnant and spot is nominal at 17s. The price quoted for May-June shipment is 15s. 9d., c.i.f.

PALMAROSA is quiet and unchanged at 17s. 6d. to 18s. per lb. on the spot.

PATCHOULI.—Singapore is quiet and on the easy side at 18s. per lb.

PEPPERMINT.—American natural tin oil is steady at from 21s. to 22s. per lb., according to brand.

PETITGRAIN.—Paraguayan on the spot is tending easier, with sellers at from 3s. 6d. to 8s. 9d. per lb.

VETIVER.—Bourbon is very scarce on the spot, and holders quote from 44s. per lb. upwards for small lots.

Pharmaceutical Chemicals, etc.

THE position of this market shows little change on the week. One or two "season" products have shown some activity, but generally matters remain on the quiet side. Prices quoted are fairly steady, but the business done in many products is subjected to very keen competition. Prices from the Continent continue firm and fully support the spot position.

ACETANILIDE is unsteady and in poor demand only, with dealers' quotations from 2s. 3d. to 2s. 6d. per lb.

AMIDOPYRIN continues to be offered by dealers at about 13s. per lb., but sales are very few.

AMMONIUM BENZOATE is steady but quiet as quoted at 3s. 3d. to 3s. 6d. per lb.

ASPIRIN.—Dealers find business slow, but their quotations remain steady at about 3s. 4d. per lb. for good brands. Quantities could be obtained slightly under this rate.

BARBITONE shows no improvement in demand, with dealers offering at about 15s. 6d. per lb.

BENZALDEHYDE.—.03 is steady, with dealers' prices at from 3s. 4d. to 3s. 6d. per lb.

BENZOIC ACID (B.P.) is available on spot in small quantities in the region of 3s. 9d. per lb. for good quality.

BENZONAPHTHOL remains more or less inactive, with the quoted rate steady at 5s. 9d. to 6s. per lb.

BETANAPHTHOL shows no change on the week; limited supplies are offered at about 3s. 6d. per lb. for resublimed.

BROMIDES.—The recent decline in quoted values seems to have been checked, but it is still doubtful if much business is being done at these rates. Stocks, or at least offers, seem very plentiful, while the demand is by no means good. It cannot be said that the market is steady. Ammonium, 9½d. to 10d. per lb.; potassium, B.P. crystals and granular, about 7½d. per lb.; sodium, B.P. crystals and granular, about 8d. per lb.

CALCIUM LACTATE has been in fair request and dealers' prices as quoted at 1s. 7d. to 1s. 8d. per lb. are steady.

CHLORAL HYDRATE.—Spot holders are firm, in the region of 3s. 8d. to 3s. 9d. per lb.

CODEINE AND SALTS.—On May 13 makers reduced their prices from 1s. to 1s. 3d. per oz., and now quote as follows:—

	List price	16 oz. and upwards	25 oz. and upwards	50 oz. and upwards
Codeine:				
alkaloid cryst. .. oz.	22/3	22/-	21/9	21/3
precip. .. "				
hydrochloride .. "	19/6	19/3	19/-	18/6
sulphate .. "	16/9	16/6	16/3	16/-
phosphate .. "				

CITRIC ACID (B.P. crystals).—Business continues on a fairly good scale and spot holders are firm for at least 1s. 6d. per lb., less 5 per cent.

CREOSOTE (B.P.) continues to be offered close up to 2s. 6d. per lb., with occasional business.

CREOSOTE CARBONATE seems to be of no interest. Quoted at about 6s. 6d. per lb. by dealers on an idle market.

GUAIACOL CARBONATE seems short in supply on spot and dealers are not anxious for business under 12s. to 12s. 3d. per lb.; liquid is 10s. 6d. and crystals 11s. per lb.

HEXAMINE is reported in full supply on spot with business dragging. Quotations are at about 3s. 8d. to 3s. 9d., and these figures might be shaded a point for big business.

HYDROQUINONE has been one of the best markets this week and dealers' prices are firming up at from 4s. 3d. to 4s. 6d. per lb.

LACTIC ACID (B.P.) is steady, with dealers' prices unchanged at 2s. 9d. per lb. in bottles, and 2s. 6d. in carboys.

METHYL SALICYLATE.—This market seems steadier, and it is doubtful if any orders could be placed at 2s. 3d. per lb. Most holders are looking for something near 2s. 5d. to 2s. 6d. per lb.

METHYL SULPHONAL has been inactive all the week: nominal at 24s. per lb.

MILK SUGAR of B.P. quality is quoted at 77s. 6d. per cwt.

MORPHINE AND SALTS.—From May 13 makers reduced their prices from 1s. to 1s. 3d. per oz., and now quote as follows:—

	List price	16 oz. and upwards	25 oz. and upwards	100 oz. and upwards
Morphine :				
alkaloid precip. .. oz.	19/9	19/5	19/1	18/9
bromide "				
meconate "				
tartrate (neutral) .. "				
acetate "	15/9	15/6	15/3	15/-
hydrochloride powder .. "				
supluate "				
Crystals 3d. per oz. more.				
				50 oz. and upwards
Morphine diacetyl "	22/-	21/9	21/6	21/-
Morphine diacetyl hydrochloride "	21/-	20/9	20/6	20/-
Morphine ethyl hydrochloride "	23/3	23/-	22/9	22/3

PARAFORMALDEHYDE has been distinctly quiet of late: dealers quote close up to 3s. 6d. per lb., with better inquiry at the close.

PARALDEHYDE has been selling fairly well, with large lots at 1s. 4d. to 1s. 5d. per lb.; market steady at these figures.

PHENACETIN is somewhat cheaper at 6s. per lb., but on the current Continental quotations replacement at these prices would be difficult.

PHENAZONE has not been called for in any quantity of late and some dealers might shade their price of 7s. 9d. to 8s. per lb. for good business.

PHENOLPHTHALEIN.—Some offers were reported down to 6s. 9d., but they cannot be confirmed. The average price is at about 7s. per lb.

POTASSIUM PERMANGANATE (B.P.).—Business continues fairly good with dealers asking about 7½d. per lb., in drums. Makers quote B.P. at 8½d. to 9d. per lb. and commercial 8d. to 8½d., carriage paid.

POTASSIUM SULPHOGUAIACOLATE is quoted on a lifeless market at the nominal value of 6s. per lb.

RESORCIN continues to be offered up to 5s. 9d. per lb., but business would no doubt be accepted at a lower rate.

SACCHARIN.—The new prices recorded last week continue in force. 550 is 62s. 9d. to 65s. per lb., duty paid, according to quantity.

SALICYLIC ACID (B.P.).—Dealers are holding their prices up to close 1s. 10½d. to 1s. 11d. per lb., and there are signs that the market is hardening gradually.

SALOL is moving very slowly and prices are none too steady, as quoted in the region of 4s. per lb. and upwards.

SODIUM BENZOATE (B.P.).—Good quality in small quantities is offering at about 2s. 9d. to 3s. per lb. by dealers.

SODIUM DIETHYLBARBITURATE has been inactive again this week, with dealers mentioning 17s. per lb.

SODIUM SALICYLATE.—So far as dealers are concerned this market has been quiet. Prices quoted are irregular, with some evidence of weak holders about. Powder, 2s. 5d. to 2s. 6d. per lb.; crystals, about 2s. 6d. to 2s. 7d. per lb.

SULPHONAL is seldom called for; dealers are offering at about 16s. 6d. to 17s. per lb.

TANNIC ACID.—Leviss is steady but dull with spot offering at 3s. per lb.

TARTARIC ACID (B.P. crystals).—Plenty of inquiry continues and holders are now showing firmness at 1s. 1d. to 1s. 2d. per lb.

TERPENE HYDRATE remains steady on a quiet market at 1s. 8d. per lb.

THYMOL has met with occasional small business; quoted at about 13s. 6d. to 15s. 6d. per lb.

VANILLIN, 100 per cent., has been selling fairly well and the spot price is well up to 25s. to 25s. 6d. per lb., with the market tending to harden.

Among the imports of chemicals which have paid Key Industry Duty since our last issue are the following: Butyl alcohol, £2,605; paraformaldehyde, £234; thorium nitrate, £320; undescribed chemicals, £2,486.

Industrial Chemicals, etc.

London, May 14.

The little improvement in demand recorded last week continues in evidence, but it is still confined to a few products. Most items remain dull. Values are about the same and the market generally is fairly steady.

ACETIC ACID continues firm on spot owing to the limited supplies on hand; business has been satisfactory: 80 per cent. technical, about £47; 80 per cent. pure, £49 per ton, in barrels; 98 per cent. glacial, about £69 per ton, in glass demijohns, ex wharf, London.

ACETONE.—The spot position holds very steady at the recently lowered prices and business has been quite good. British Government specification is about £97 to £98 per ton, in drums, ex wharf, London.

ALUM has not been selling in any great volume. Dealers offer lump, in casks, at about £10 10s. to £11 per ton.

ANHYDROUS AMMONIA continues to meet with a good business as the season comes along. Dealers' prices are very steady at 1s. 5d. to 1s. 6d. per lb.

ARSENIC.—There has been further weakness under continuous cheap Japanese offers down to about £45 per ton, c.i.f., and in the virtual absence of demand Cornish is also considerably weaker. Terms delivered London stand at about £53, while purchases might be made f.o.r. Cornwall down to about £50 per ton.

BARIUM CHLORIDE is called for now and again in small lots with the price for 98 to 100 per cent. about £14 10s. to £15 per ton.

BLEACHING POWDER is steady on spot but slow of sale. Dealers quote 35 to 37 per cent. chlorine at about £10 to £10 10s. per ton.

COPPER SULPHATE.—Moderately active conditions are noted in export trade and the tone has continued very steady, regardless of the further cheapening in the cost of rough bar copper. The terms wanted are widely divergent, between about £24 15s. and £25 5s. per ton, f.o.b., for casks, less 5 per cent. Exports over the last few months have certainly been on fairly large scale, and this has strengthened the position of makers.

CREAM OF TARTAR.—A good business has been done of late and the price for British and Continental of B.P. quality is very steady at 85s. to 87s. 6d. per cwt., less 2½ per cent.

EPSOM SALT has been more active and the spot price for commercial quality in single bags is firm at £5 2s. 6d. to £5 7s. 6d. per ton.

FORMALDEHYDE remains slow in moving off, with the price of 40 per cent. volume rather unsteady in the region of £61 per ton.

GLAUBER'S SALT is unchanged on the week, with the market showing but little life: quoted at about £3 12s. 6d. per ton, in bags.

LEAD ACETATE.—Quotations are irregular, with an average of about £46 for brown and £48 for white.

LEAD PRODUCTS.—Further reductions were lately made by British makers of lead oxides and white lead. Current quotations are as follows: Red lead and litharge for the home trade and export, £45 per ton; white lead in oil, £50 15s.; and dry white lead, £46 7s. 6d., f.o.b. for export.

LITHOPONE continues to find fair business, and dealers' prices are steadily maintained at about £22 10s. per ton for 30 per cent. Continental red seal.

OXALIC ACID remains very dull and sales seem to be difficult at the quoted rate of about 5½d. to 5½d. per lb.

POTASH CAUSTIC.—The spot position shows no change. Business has been confined to a few small spot lots at about £31 per ton, in drums, for 88 to 92 per cent. solid.

POTASSIUM CARBONATE seems plentiful on spot and in no great demand, but the prices, so far as quotations go, are maintained. Most business, however, is believed to be on rather lower price levels: 90 to 92 per cent., about £24; 95 to 98 per cent., about £26 per ton.

POTASSIUM CHLORATE.—The spot price, in the region of 3½d., is rather more than is being asked for forward delivery.

POTASSIUM PERMANGANATE of commercial quality is unchanged, with dealers selling moderately well close up to 7½d. per lb.

POTASSIUM PRUSSIAN from dealers offering British remains slow in demand, with the price about 8½d. per lb.

SAL AMMONIAC.—Spot stocks are available in good quantities and some limited quantities have been cleared at level prices. The market is steady on spot, with German prices appreciably dearer in comparison: dog-tooth crystals, about £44 10s.; medium, about £40; fine white crystals, from £26 10s. to £27 per ton.

SODA ASH (58 per cent. light alkali).—British makers' prices for home consumers only is unchanged at about £6 15s. per ton, in bags.

SODA CRYSTALS (CARBONATE).—British makers' price for home trade is unchanged at 25 5s. per ton, in bags, ex station.

SODA CAUSTIC.—Dealers and British makers' prices are level on the week. Dealers quote: 70 to 72 per cent., £15 10s.; 76 to 77 per cent., £17 10s. per ton, in drums, ex wharf, shipping port. British makers: 70 to 72 per cent., £17 17s. 6d.; 76 to 77 per cent., £19 7s. 6d. per ton, in drums. British makers' prices for export vary according to destination.

SODIUM ACETATE, in consequence of higher rates asked on the Continent, shows a further rise in the spot value, which is now about £25 10s. per ton.

SODIUM BICARBONATE.—British makers' prices for home trade only is steady at £10 10s. per ton, bags free, carriage paid.

SODIUM BICHRONATE.—For home trade only British makers continue to quote at 4½d. per lb., carriage paid.

SODIUM HYPOSULPHITE.—If anything, prices are just a trifle easier this week, with dealers offering imported pea crystals close up to £14 10s., and commercial quality at about £9 10s. to £9 15s. per ton. A very fair business is reported.

SODIUM NITRATE.—It is officially announced from Valparaíso that the Nitrate Producers' Association has been renewed for a period of six years from July 1, 1924. For the period from July to the second half of October prices have been fixed at rates ranging from 19s. 3d. to 20s. 3d. per metric quintal, the gradual increases during this period being 2d. per quintal. Thereafter the prices will gradually rise by ½d. per quintal for the period to the second half of November to 20s. 6d., and then the increases will be 1d. per quintal up to May 31, 1925, 20s. 9d. per quintal being the sale price for the five months to the latter date. Sales are to commence at the new prices from May 14. In London, ordinary for prompt delivery is quoted at £13 15s., and refined at £14 per ton.

SODIUM PRUSSIAN remains slow, with dealers offering British at about 4½d. per lb., in one-ton lots.

SODIUM SULPHIDE from dealers is unchanged on the week, with little business about: solid, 60 to 62 per cent., £14 10s.; ditto, broken, £15 10s. per ton, in drums. Pure recryst. is 10d. to 1s. 2d. per lb.

COAL-TAR PRODUCTS, ETC.—One or two changes of minor importance are recorded, chief amongst which is a further fall in the value of carbolic acid crystals. Pitch remains inactive and nominal. Solvent naphtha is firmer. **ANILINE OIL** is offered by British makers naked at works at the unchanged prices of 7½d. to 8½d. per lb. **ANILINE SALT** is none too steady as quoted by British makers at 7½d. to 9d. per lb., naked at works. **BETANAPHTHOL** has been dull all the week, with the quotation at about 1s. 1d. to 1s. 2d. per lb. **TOLUOL**: pure, 1s. 10d.; 90's, 1s. 4½d. to 1s. 7d. per gallon; these prices are quoted by British makers. **XYLOL**: pure, 3s. 3d.; commercial, 2s. 3d. per gallon; there is no change to record in British makers' prices. **CREOSOTE OIL** remains very slow in demand, with last week's cheaper prices still current: ex works, 7½d. to 8d.; f.o.b., 8½d. to 8½d. per gallon, for large quantities; slightly more for small quantities. **CARBOLIC ACID CRYSTALS** are mentioned by dealers at the still cheaper prices of about 7½d. to 7½d. per lb. for 39 to 40 per cent. C. crystals, in large-bulk packing. The market remains very quiet. **CRESYLIC ACID** is firm and active, with every sign of advancing from to-day's prices of 1s. 11d. to 2s. 1d. per gallon for 97 to 99 per cent. **NAPHTHALENE** is perhaps a shade better, in the region of £17 per ton for flakes, from dealers. **PYRIDIN** (90 to 140) keeps fully up to its recent high level of value at about 22s. to 24s. per gallon, and the demand is fast exceeding the supply. Heavy pyridin is 11s. to 12s. per gallon, with little business. **HEXAMETHYLENE** from dealers is offering close up to 3s. 9d. per gallon, on a dull market. Pure **METHYL ALCOHOL** is unchanged, with dealers' prices, ex wharf, in drums, at about £80 per ton. **PITCH** remains lifeless, with the value nominal at 57s. 6d. per ton, f.o.b. East Coast.

Fixed Oils, etc.

The total volume of business in this section remains below the normal, and a number of products have been more or less idle for some weeks. There is no outstanding change to report, but several items are far from steady. **ACID OILS.**—Last week's better prices are maintained on a steady but quiet market: coconut and palm kernel, 39s. 3d.; groundnut, 35s. 6d.; soya, about 35s., all spot. **CASTOR.**—There is no further change; market is quiet but steady: pharmaceutical, 69s.; first pressings, 64s.; second pressings, 62s., in barrels in not less than one-ton lots. **COCONUT** remains in small demand, with values level on the week: deodorised, spot, 50s.; Ceylon, 44s., c.i.f.; Cochin, 50s., c.i.f. **COTTON.**—There is no change in the position; market quiet: deodorised, 52s.; common edible, 50s.; soapmaking, 46s.; crude, 42s., all spot. **GROUNDNUT.**—This market continues quiet with values unchanged: deodorised, on spot, 56s.; crude Oriental, 50s., c.i.f. **LINSEED** (raw, naked).—Towards the close prices cheapened somewhat and business was much quieter after a short period of activity and hardening markets. Spot, about 38s.; May, 37s. 7½d.; May-August, 37s. 7½d.; September-December, 36s.; Hull, on spot, 36s. 9d.; May, 36s. 7d.; May-August, 36s. 10½d.; September-December, 36s. The seed market has shown plenty of resistance and a good premium is being realised for Calcutta seed. There has been some improvement in the export movement, the total for April amounting to 3,127 tons, against 2,674 tons for April last year, and the aggregate for the four months represents 8,933 tons, compared with 9,487 tons for same period last year. **PALM KERNEL.**—Quoted prices are irregular on a dull market: deodorised, on spot, about 47s. 6d.; crude, about 41s. 6d., all spot. **PALM.**—Changes in prices for the various grades have been of daily occurrence. The market has certainly been a little more active and closes firmer, with some grades showing an improvement in value: Lagos, about 36s.; softs 35s. 6d.; mediums, 37s.; hards, 37s. 6d.; bleached, 38s. 6d., all spot. **RAPE** has been dull all the week and lower values are reported at the close: refined, 52s. 6d.; crude, 49s. 6d., all spot. **SOYA** remains very quiet and values are a shade easier again: deodorised, about 50s.; crude, 43s., all spot. **TURPENTINE** (American).—On the week this market shows a slight fall in value for all positions, and at the close was quiet but firm. Total London stocks show a further reduction to just over 10,000 barrels of American and 357 of French spirit. On spot, 72s.; May-June, 71s.; July-December, 8s. 6d. Deliveries were again very good, amounting to about 2,255 barrels, while the stocks were further reduced to about 10,350 barrels. **WOOD.**—Hankow in barrels on spot remains dull, with the price about 85s.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—As a whole this market has been rather quieter of late and a few items show a tendency to weaken. Lubricating oils are not so healthy on spot, and white oils have declined in value. Solvent naphthas have been active and close dearer. **BENZOL.**—British makers' prices remain unchanged and dealers are offering at competitive rates: crude 65's, 10½d. to 1s. 9d.; standard motor, 1s. 6d.; pure, 1s. 8½d. to 1s. 10d. per gallon, ex works, in tank wagons. F.o.b. prices would be about 6d. more per gallon. **FUEL OIL** stands firm at level rates on the week: 890 gravity, 25 7s. 6d.; 950 gravity, 24 7s. 6d. per ton, ex tank. **PARAFFIN WAX AND SCALE.**—Wax continues firm, with prices fully 3½d. to 5½d. per lb., according to melting point, in bags. Scale is rather cheaper at about 29s. to 30s. per cwt., c.i.f., U.K. port. **SOLVENT NAPHTHAS.**—There has been good business during the past week and prices are firmer: 90 to 160 is very active and now quoted at 1s. 4d. to 1s. 5d. per gallon; heavy, 90 to 190, is steady at 1s. 2½d. to 1s. 3d. per gallon. **PARAFFIN OILS.**—American oils remain firm at unchanged rates. American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free. Russian prime white kerosene is also well maintained at full rates: 6½d. to 7d., ex tank; 7½d. buyers' barrels filled free: about 10½d. per gallon, barrels free, ex wharf, London. **PETROLEUM JELLIES.**—There is no change to record—market keeps very steady; white to snow white, £64 to £69; amber and yellow, £25 to £28; red vet, £22, dark stiff green, about £21 per ton, ex wharf, London, barrels free. **WHITE OILS.**—Slightly lower prices are quoted here, with the market quieter. Special No. 1, £44; No. 1, £38; No. 3 half-white, £39; No. 4 half-white, about £20 per ton, drums and barrels free, ex wharf, London. **LUBRICATING OILS.**—Prices for shipment in some directions are somewhat easier, but so far spot values are unchanged, with the market quiet: pales, £14 to £27; reds, £15 to £28; dark cylinders, £17 10s. to £37; filtered cylinders, £23 15s. to £43 per ton, less 2½ per cent., ex wharf, London. **SOLUBLE OIL.** unchanged at £21 to £28 per ton, net. No. 1 **RUSSIAN OIL**, is very steady and in good demand, as quoted at about £19 15s. per ton, less 2½ per cent., ex wharf, London.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Council Election

SIR,—It is rumoured that it is the intention of the retiring members of the Council, who have issued a joint address, to propose in future elections: (a) That any vote cast for any retiring candidate shall of necessity be credited to all the retiring candidates. (b) That no difference of opinion on any vital subject is possible at election time, and therefore "one for all" is a progressive policy. (c) The only condition that shall apply is that at least one meeting in three years shall have been attended, and that that shall be preferably the one immediately preceding the election.

Yours truly,

NEMO ME IMPUNE LACESSIT (14/5).

SIR,—The joint appeal of the retiring members of the Council conveys very little consolation to the struggling pharmacist, harassed by the countless rules and regulations which are being enacted almost daily. The three principal planks of the appeal would appear to be education, branch organisation, and scientific research, all excellent objects in their place, which place one would expect to find into the usual routine of a live Society; but not one word do we see as to the intention of the Council to hold out a helping hand to those of us already in the net. Perhaps it is just as well that the retiring Councillors conveniently ignore the more urgent side of the question. When we think it over quietly we realise that the Council is perfectly helpless to assist its members, and most pharmacists have arrived at the same conclusion. The trouble is that the Council has no power to do anything. Can the Council secure an amelioration of the Dangerous Drugs Act? Can the Council obtain the legal separation of dispensing from prescribing? Can the Council secure the recognition of its qualification by the Army Council? Can the Council prevent unqualified traders opening "pharmacies" wherever they wish? Can the Council obtain for us a proper status and remuneration under the National Insurance service? Can the Council erase from the register the name of any member for unprofessional conduct? Will the Council be able to prevent the drug-store man's Pharmacy Bill becoming law? The answer to all these and to many other questions which arise in one's mind is, No. The Council has no power to do any or all of these things, and therefore all the speeches of Councillors at local branches, all the resolutions proposed, seconded and passed unanimously at these branches, all the letters to the trade Press urging the Council to do this, that, and the other, all these things are waste of time and breath. We can "grouse" as much as we like, but, having no punch behind our grumble, no Ministry or Government will take a scrap of notice of us.—Yours faithfully,

VANITAS (5/5).

Starting a Business

SIR,—“Outosell” (*C. & D.*, May 10, p. 678) hits off very neatly the real drug trade to-day when he speaks of:—

1. Two pennyworth of glacial acetic acid.
2. The saline in six drugs.
3. The rubbing oils in three drugs.

We all know them. Except the Aldermanic Bench chemist who has long ago given up the drug trade to his very experienced and capable unqualified man. A Major lady chemist in Scotland asked me, through a friend, to get her a job in England. Says the friend to me, “All she can get, so far, is the offer of a job in a shop.” When the degree in pharmacy comes off (or should I say on?) how will these long-haired professors like to serve the

public in a shop if the Majors don't want it now? As MacWalter, of Dublin, once said, “The ordinary qualified assistant is sufficiently worthless as he is: to give him a degree is only to make him into a ‘shoneen’ professor,” which is Irish for “sham,” or thereabouts. As “Xrayser I” used to say:—

Dream after dream succeeds,
And still they dream that they
Shall still succeed.

But the public will still prefer the old druggist with his coloured carboys (though the latter will not be in the window). Give me the rubbing oils in three or five drugs: I have done astonishingly well out of that sort of thing, but it needs much more energy, patience and trade knowledge than any degree will ever confer on anybody, let alone the desire to serve the public, which is so evidently absent from quite a lot of men who have degrees in other professions. So that we need not expect it to alter the spots of the pharmacy leopard when the degree in pharmacy comes off.

Yours truly,

JAY MACK.

Sale Terms of Proprietaries

SIR,—“Xrayser II,” in the first paragraph of his “Observations and Reflections” (*C. & D.*, May 10, p. 661), has dotted the i's and crossed the t's of many letters which have appeared in your columns advising pharmacists to look after their own goods, and let unprofitable patents look after themselves. The pharmacist's business is a more personal one than probably any other trade—that is, of course, if he chooses to make it so—and to be a pharmacist in deed as well as in name, and not merely a distributor of unremunerative and cut-price proprietaries, and if he can pack a good article of his own and judiciously recommend it to customers who have learned to value his opinion, he can hold his own with such a line against all the patents ever put on the market. This sort of policy, however, requires thought and work to start with, and these qualities seem to be at a discount in our present age.—Faithfully yours,

PHARMACIST FIRST (6/5).

Dispensing Doctors

SIR,—The answer to “Ajax” (*C. & D.*, May 10, p. 679) says that the medical man when dispensing poisons must comply with the Pharmacy Act by giving his name and address on the label. How often is this complied with? How many times do pharmacists in their daily business handle doctors' bottles with only a slip label on, directions only and no address, and how often are these bottles flagrant abuses of the Pharmacy Act, such things as belladonna liniment being dispensed in six-ounce tablespoon bottles, and so on? And, what is more to the point, how often does the Pharmaceutical Society investigate or take action in these cases? Do their inspectors call on surgeries as well as pharmacies? In this respect truly, as “Xrayser II” says, the pharmacist has earned some more protection than he receives at present. The pharmacist in practically every case honourably fulfils his legal obligations, and so far as he is concerned the public is safeguarded according to the letter of the law, and it is now time that we should have a little consideration and return for our services. The State has done very well out of the craft, especially in regard to the Insurance dispensing, having secured the use of pharmacists' premises and stocks all over the country at no expense to the Government, the fees paid for labour barely covering expenses, and in future our policy should be to lay stress on what we have done for the public benefit in the past, and to agitate for a better return both in protection and remuneration in the future.—Yours truly,

QUERIST (3/5).

Rehabilitating Dr. Dee

SIR,—I am surprised to find in the *C. & D.*, May 3, p. 627, that “Xrayser II” charges me with having commenced the present controversy on alchemy, “by attributing to your reviewer words he never used.” On referring

to the published correspondence I find that I have at no time attributed any words to your reviewer at all. What I did was to protest against a suggestion he made which I considered to be unwarranted. So far as the question of Dee is concerned, I am glad to observe that "Xrayser II" does—at least this is how I interpret his words—regard the question of Dee's sincerity as important, and if I have misunderstood his remarks in THE CHEMIST AND DRUGGIST of April 5 to mean the opposite to this, I sincerely tender him my apologies. But if the question is important, I fail to understand why "Xrayser II" should rely—as he appears to do—for his information on the none too well-informed article in "Chambers' Encyclopædia." He appears to be unacquainted with the excellent account of Dee's life in "The Dictionary of National Biography" and the very complete biography by Miss Charlotte Fell Smith (1909). Nor do I think he can have read Dr. Dee's Diary, published in 1842 by the Camden Society, since I feel certain that no one can read this without gaining the conviction that its words are those of an honest and sincere man. On the contrary, Redgrove, by his references in his "Alchemy," shows that he is well acquainted with these sources of information concerning Dee, and his estimate of the man's character is therefore, I think, to be relied upon. "Xrayser II" says that he "gave frankly"—(his) reason for holding Dee to be a deceiver. This reason amounts to no more than that Dee and Kelly were for long in intimate association and shared a period of prosperity together. I can imagine no more feeble reason for accusing Dee of imposture than this.

Yours faithfully,

GERALD DRUCE,

M.Sc. (Lond.), Dr. R. Nat. (Prague).

SIR,—With regard to the alchemical controversy in your recent numbers I think that your correspondents would find information bearing on the point in Godwin's "Lives of the Necromancers," and also in the diary of John Dee, edited by J. O. Halliwell, for the Camden Society. The facts brought to light by a study of these two books and the biography of Dee by Charlotte Fell Smith corroborate fully the statements in Redgrove's "Alchemy." There is indeed little to show that Dee was other than an honest alchemist of high repute, although naturally he would be friendly with professional colleagues, including Kelly.

EDWARD J. WEEKS,

M.Sc. (Lond.), A.I.C., F.C.S.

Legal Queries

C. S. (2/5).—Mercury cyanide and its preparations are poisons within the meaning of Part I of the Poisons Schedule. Mercury oxycyanide is strictly a preparation of mercury cyanide, although it is probably a definite compound.

T. J. L. (7/5).—The new Order in Council dealing with the labelling of poisons has not yet been published in the "London Gazette." Until the terms of the Order are known you should continue to label the preparations "Poison" as you are doing.

J. B. (9/5).—One of the two shops can be placed under qualified management ("registered superintendent"), and the other managed by yourself; in both cases the certificates of the managing chemists must be exhibited. The superintendent must be registered as such before you open the shop.

S. L. (8/5).—(1) An unqualified partnership in England cannot carry on the business of a chemist and druggist. Such persons must form a limited liability company and place a qualified superintendent in charge of the business. (2) The use of the name of a manager after the trade name would not be in accordance with the Pharmacy Acts.

A. B. C. (6/5).—A qualified chemist managing a business must carry it on in a *bonâ fide* manner. Occasional or periodical appearances on the premises is not sufficient to comply with the Act in the case of shops where poisons

are sold. The Pharmacy Acts require that all poisons should be sold by a qualified chemist or under his supervision. You cannot supervise the sale if you are away half the time the shop is open.

R. G. H. (3/5) is employed as a dispenser at a salary of £3 per week. Must he be insured under the National Health and Unemployment Insurance schemes, and, if so, at what rates? [He must be insured under both schemes. His Health Insurance contribution is 10d., which he and his employer share equally; his Unemployment Insurance contribution is 1s. 7d., of which he pays 9d. and his employer 10d.]

H. L. M. (6/5).—(1) "Dangerous" drugs no longer come under the Dangerous Drugs Acts if their dilution is greater than the quantity specified in the Acts, but prescriptions containing the drugs must still be entered in the prescription book in accordance with the Pharmacy Acts. (2) A chemist can prescribe the drugs if the correct limit is observed. It is wise, however, to be cautious in doing so so that the practice does not lead to abuse. (3) In making tr. camph. co. it is not necessary to record the quantity made in the "dangerous" drugs register. The register is for sales. (4) Liq. morph. hyd. safety limit is 50 minims to the fluid ounce. (See *C. & D. Poisons Card*, No. 4.)

Corinium (30/4) bought, nine months ago, a combined house and shop of which the standard rent is £18 per annum. The rent had previously been increased to £23 10s., and, at the time, the tenant was told that the rent would later be increased to the maximum amount of £25 4s. Is that the full extent to which the rent may be increased? [If "Corinium" is responsible for the whole of the repairs he is entitled to increase the standard rent by 40 per cent. to £25 4s. No further increase is permitted unless "Corinium" pays the rates, in which case he is entitled to raise the rent by a sum not exceeding the amount by which the current rates are higher than those charged in August 1914.]

G. P. J. (10/5).—A child who was christened A. B. was left an orphan in his infancy. He was adopted by foster parents, who gave him the name of C. D., by which he has since been known. He is now of full age, and is uncertain which is his legal name. What disadvantages are likely to ensue from his continuing to use the name C. D.? [A man is entitled to call himself what he likes, and as the subject of this inquiry is universally known as C. D., it is probably better that he should continue to use that name to the exclusion of his baptismal name. The only difficulty which appears likely to arise is that he might have trouble in establishing his identity in the event, for example, of a bequest to him under the name of A. B. We therefore advise him to preserve evidence of his change of name in the form of a statutory declaration by his foster parents.]

B. & H. (5/5) says that his firm have not been allowed to deduct from their return of profits for income-tax their subscriptions to the *C. & D.*, the Pharmaceutical Society and Optical Society, and he wishes to know if this is correct. He also complains that a deduction of 5 per cent. for depreciation made on the value of fixtures has been disallowed. [As to the subscriptions, the rule is that they are allowable where the outlay incurred on them is an outlay which enables the income to be earned, or an increased income to be earned. For example, if information obtained from the *C. & D.* enabled some of the profits taxed to be made, then the subscription ought to be allowed. As regards the depreciation, the rule is that such a deduction is allowable as represents a just and reasonable estimate of the diminution in value by reason of wear and tear within the year. The Commissioners fix the amount, subject to a reference to a Board of Referees in some cases. The allowance is made only on plant and machinery, not on buildings; and it is subject to this that the total of the allowances made year by year to the firm by whom the trade is carried on must not exceed the actual cost of the plant or machinery to the firm, including any capital expenditure for renewal, improvement, or reinstatement.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

P. K. (26/4).—ELECTRO-DEPOSITION.—The following are among the books dealing with this subject: Watt & Phillip's "Electro-plating and Electro-refining" (Crosby Lockwood, London, 1902); Field's "Principles of Electro-deposition" (Longmans, London, 1911); McMillan & Cooper's "Electro-metallurgy" (Griffin, London, 1910, 21s.); Watt's "Electro-plating" (Crosby Lockwood, 1920, 5s.); Barclay & Hainsworth's "Electro-plating" (Arnold, London, 1912); Canning's "Handbook on Electro-plating, Polishing, Lacquering, Burnishing and Enamelling" (W. Canning & Co., Birmingham, 1914); Langbein-Brann's "Electro-deposition of Metals" (H. C. Baird & Co., New York, 1920).

T. J. L. (7/5).—DRYNESS OF MOUTH.—The best treatment for constant dryness of the mouth is to suck sodium citrate tablets (one or two grains) as lozenges. No starch, gum or other adhesive should be added.

Ajax (67/12).—STARTING A BUSINESS.—If the site for the 1,000 houses is isolated and not likely to be connected with the town or extended, the possibility of an immediate living is uncertain. It would require a population occupying a minimum of 2,000 houses to give a chemist the living he requires nowadays.

Yearling (10/5).—DISEASE IN YEARLING CATTLE.—This is a complaint requiring veterinary attention, as it seems to be of an alarming nature. Possibly the grazings are the cause, being contaminated with the virus of many diseases, such as fluke, hoose, etc. A brisk dose of mag. sulph. should be given, followed by regular doses of aloes 3j., calomel 3ss.-j. daily. In cases of this kind it is a preventive that is required. Change the pastures and place pieces of rock salt where the animals can get at them. Should any more deaths occur, a qualified practitioner should be called in to make an autopsy, and thus get a definite decision.

Scotia (24/4).—LUNG TONIC.—The formula for which you ask is as follows:—

Coltsfoot,	horehound	and	
linseed	...	aa.	3j.
Liquorice	...	...	5ij.
Ether	...	...	3iss.
Anise oil	...	...	3iss.
Peppermint oil	...	...	vj.
Oxymel of squill	...	...	3℥xiv.
Syrup of tolu	...	...	3℥xxij.
Tincture of capsicum	...	...	5ij.
Treacle	...	...	3℥xiv.
Water	...	...	Oij.

N. N. A. (25/4).—"ALL FOURS."—There are three formulas for this in the *C. & D. Diary*, 1922 and 1923, the prices for which are quoted in the *C. & D. Retail Price List*. The cheapest is the following:—

Ol. anisi	
Ol. menth. pip.	...
Tr. opii	...
Tr. camph. co.	...
Aq.	...

This is outside the Dangerous Drugs Acts.

B. & Co. (Paris) (24/4).—QUININE AND CINNAMON CAPSULES.—These are made of the strength of quinine sulphate 1 grain, oil of cinnamon 1 m, in each capsule. The oil is absorbed by powdered cinnamon and mixed with the quinine so as to form a paste, which is squeezed through a nozzle into empty gelatin capsules and sealed with melted gelatin.

W. T. M. (29/4).—EXTIRPATION OF SUPERFLUOUS HAIRS.—Depilatories containing barium sulphide or sodium sulphide are used, but may cause severe skin irritation in some cases. Rubbing the part with pumice stone each day was recommended as more suitable than using a razor. Shaving stimulates the skin and makes the hair grow stronger, as you will have noticed when boys begin to shave.

Stearic (Tasmania) (12/4).—(1) SKIN CREAM.—The reason the borax emulsion is broken up on the addition of glycerin is that boric acid is liberated from the borax, and this has not the same emulsifying properties as borax. If an alkali is added to emulsify the stearic acid, you will not experience the difficulty you complain of. The alkali may be potassium hydroxide, sodium hydroxide, sodium carbonate or potassium carbonate.

(2) BENZOIN AND ALMOND CREAM:—

Almond cream	...	...	3vij.
Expressed almond oil	...	...	3iv.
Glycerin	...	...	3xij.
Lavender water	...	...	3x.
Geranium oil...	...	...	3ij.
Simple tincture of benzoin	...	...	3ij.
Distilled water to	...	...	Cj.

Rub the almond cream in a large earthenware mortar until pliable, then add the almond oil and geranium oil very gradually, manipulating the emulsion vigorously between each addition. Next the glycerin is added, then the water (gradually), and the tincture of benzoin. Lastly strain and add the lavender water.

J. W. D. (30/4).—The adhesive employed for gummed tape is a solution of gum acacia containing a little glycerin to prevent curling. A suitable solution is:—

Gum acacia	...	...	2 lb.
Glycerin	...	...	1½ lb.
Formalin	...	...	1 oz.
Distilled water	...	...	1 gallon

Sometimes part of the distilled water is replaced by lime water. Variations in the gum acacia make it desirable to conduct experiments as to the best formula for the purpose in view.

L. T. (30/4).—ELEMENTARY BOOKS ON ANATOMY.—The following are suitable for your requirements: Kimber's "Text-book of Anatomy and Physiology for Nurses," 12s. 6d. (1915); Eccles' "Elementary Anatomy and Surgery for Nurses," 2s. 6d. (1896); Fagge's "Pocket Anatomy," 3s. 6d. (1913).

B. P. (1/5).—ENTICING OILS.—The oils for enticing horses are mixtures of various essential oils. The following is given in "Pharmaceutical Formulas" as one commonly used:—

Copaiba balsam	...	...	5j.
Expressed oil of almonds...	...	...	5j.
Oil of roses...	...	...	℥xxx.

W. F. (1/5).—ANNATTO BUTTER COLOURING.—Any vegetable oil is suitable as the base of an annatto butter colouring. There are no vegetable oils other than almond oil that remain liquid at low temperatures. Soya-bean oil can be used as a vehicle of annatto colour.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," May 15, 1874

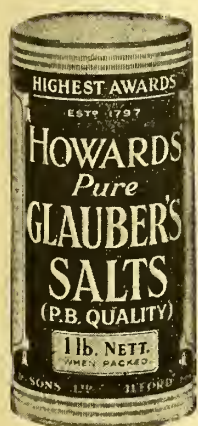
Professor Attfield

[The opening paragraphs of an illustrated biography of Dr. John Attfield.]

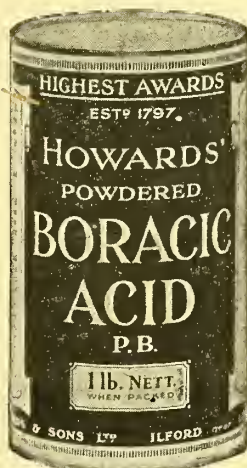
Once a month, on Monday evening, a set of young chemists used to assemble in a room kindly lent them by the Council of the Pharmaceutical Society; Professor Redwood, the only senior in their midst, presided over their discussions. Many members of this Association have risen since to eminence. Mr. John Williams read the first paper: Mr. Gale, the treasurer, gave an elaborate sketch of the composition of the syrups of the phosphates; Mr. C. H. Wood, who has received the honour of an appointment as Quinologist to the Government in India, was a most active contributor; and others have sat as councillors at the very round table round which they gathered when they ventured—not without apprehension—on their opening chemical speculations. The meetings held were as agreeable as they were instructive, and continued for about eight years (1858-1866). Inevitable circumstances dispersed the original associates. They were scattered in various directions, yet, though short had been their companionship, lasting benefit had been derived. It was before this assembly that John Attfield communicated his first effort at research, on "The Solubility of Mercurial Precipitates in Alkaline Salts."

HOWARDS

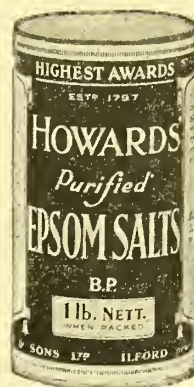
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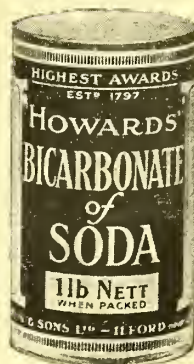
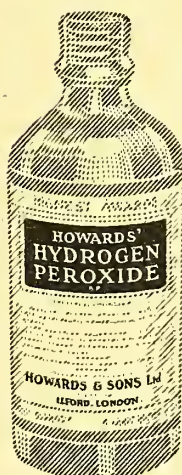
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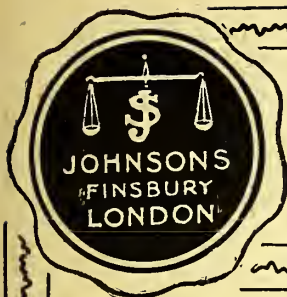
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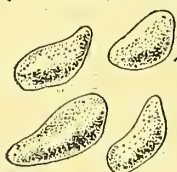
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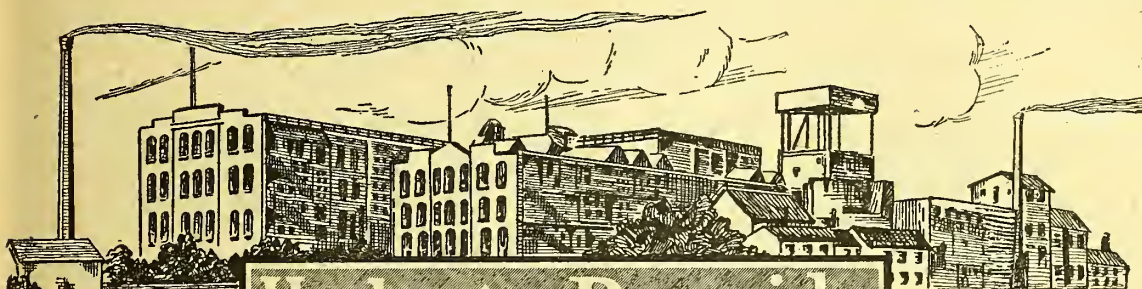
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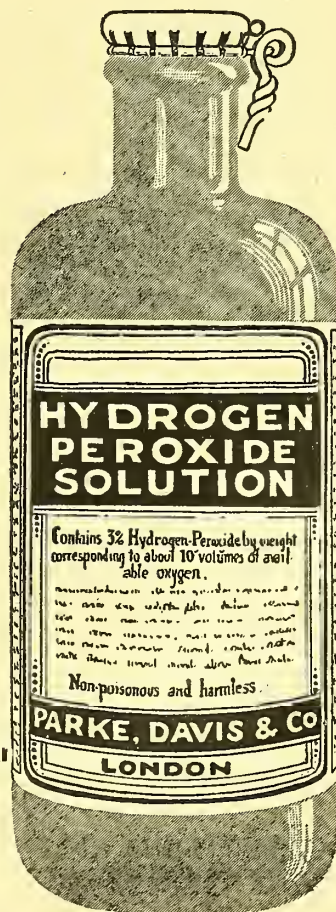
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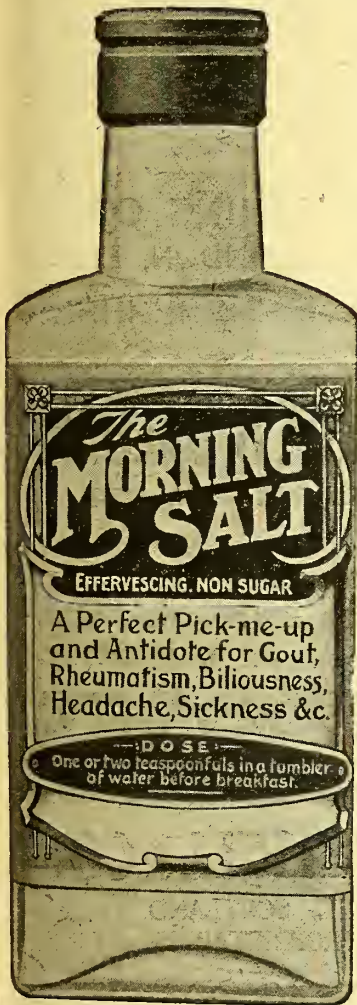
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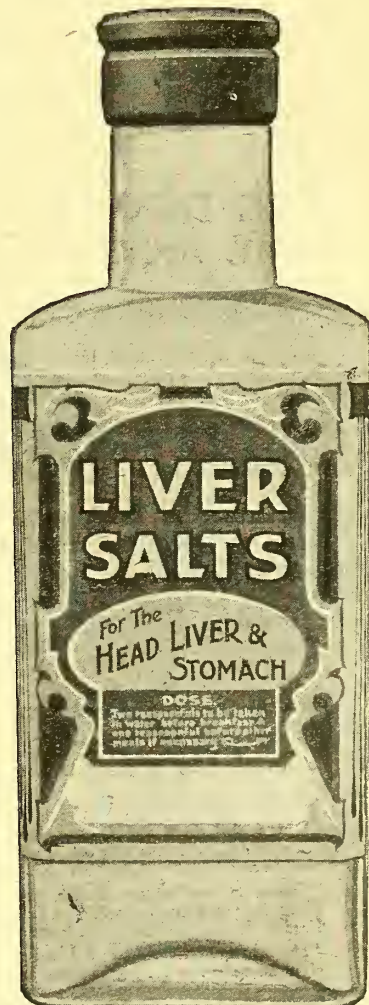
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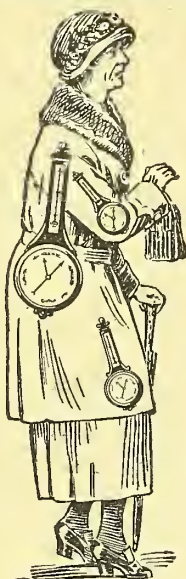
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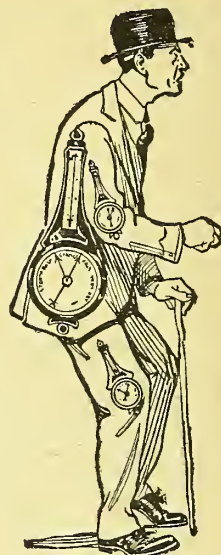
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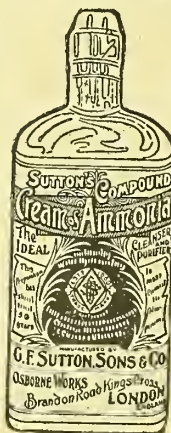
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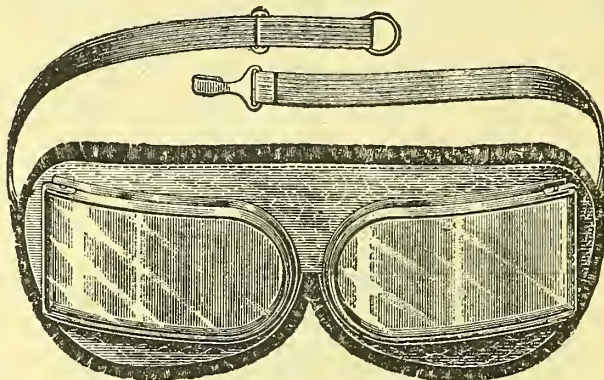
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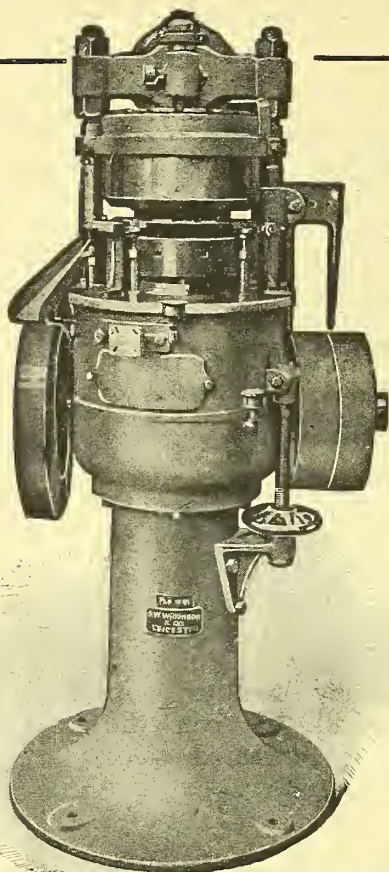
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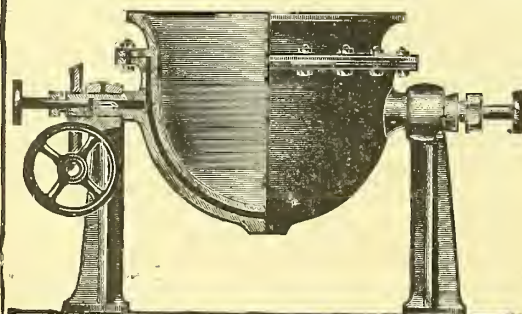
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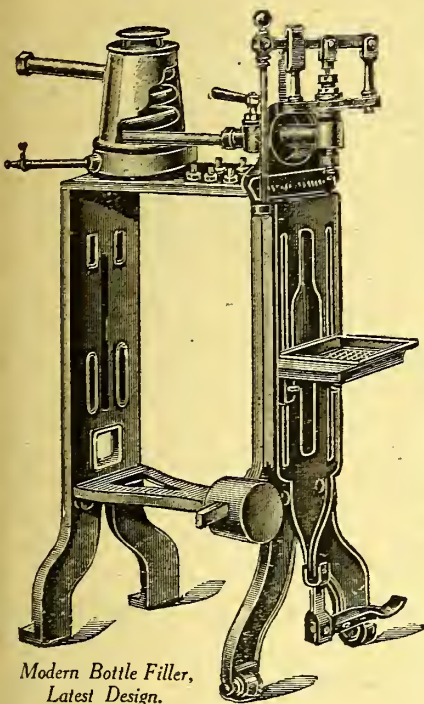
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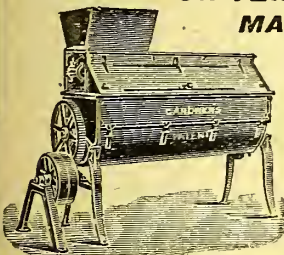


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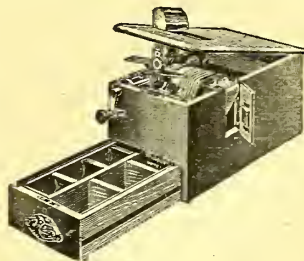


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42 CANNON ST.
LONDON E.C.4

MAY 17, 1924

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EASTBOURNE.—Assistant wanted, about 23, for good-class Retail, Dispensing, and Photographic business; must have had good practical experience. Apply, with full particulars, stating age, height, salary (outdoors), experience, and enclose photo. Procter, 5 Station Parade, Eastbourne.

GLAMORGANSHIRE.—Wanted, an Assistant in country town with view to early succession. Give full particulars and salary required in first letter, to 217/29, Office of this Paper.

INVERNESS.—Wanted, First Assistant, unqualified, single, and over 30 years of age; good appearance; smart Counterhand, with knowledge of Photo. work and handling of Kodaks; must be sober and honest; references and salary required, with recent photo. Mayors, Inverness.

LEICESTER.—Competent 4th Counterman wanted, accustomed to high-class trade and Photographics; 25-30 years; short hours; half-day weekly; no Sunday trade. Apply, giving last two appointments, returnable photograph, salary, and all particulars, 214/26, Office of this Paper.

LONDON, E.2.—Junior Assistant, aged about 25, for N.H.I. Dispensing and Counter work. Apply, letter only, stating age, particulars of former engagements with duration of each, when disengaged, and salary required, "Pharmacist," 300 Amhurst Road, Hackney, N.16.

LONDON, S.E..—Wanted, a Junior Assistant; outdoors; good Counterman and Dispensing experience. Apply by letter, giving full particulars as to age, experience, salary required, and when disengaged, to J. W. Rumsey & Son, 535 Lordship Lane, S.E.22.

LONDON, S.W..—Wanted, at once, qualified man, with knowledge of Photography, for Cover. 215/39, Office of this Paper.

LONDON, W..—Qualified Assistant, outdoor (male), with good experience, required for good-class Dispensing and Retail business. Apply, with full particulars as to age, experience, salary required, etc., to G. W. Gray, 194 Holland Park Avenue, Kensington, W.11.

LONDON, W.1.—Qualified Junior Assistant wanted at end of May; might suit man recently qualified desiring West-End Dispensing experience. Apply, stating age, experience, salary required (outdoors), and when disengaged. 217/2, Office of this Paper.

MANCHESTER.—Wanted, qualified Dispenser; full particulars and salary required. Also qualified Cover for branch establishment, with light hours if desired. Full particulars and when at liberty in first letter for permanent berth. 213/21, Office of this Paper.

MIDDLESEX.—Qualified lady Assistant as Superintendent, Company; quick in Dispensing and Counter; Photo. experience; able to take charge when required; state salary, experience, and photo; hours 9-8, every other Wednesday and Sundays one hour duty. 214/30, Office of this Paper.

MIDLANDS.—Qualified male Assistant, outdoors, with good knowledge of Photography; capable of taking charge; good-class suburban Family and Dispensing business; no N.H.I.; must be experienced and thoroughly reliable. State usual particulars to 213/24, Office of this Paper.

MIDLANDS.—Qualified Assistant, male, for quick cash trade; good Dispenser and Window-dresser. Write, stating how soon can be disengaged, salary expected, height, and photo (if possible) to Bates, Ltd., Chemists, Market Place, Willenhall, Staffs.

NEWPORT, MON.—Junior Wanted, unqualified, aged 23 or 24 years, good appearance, good Salesman, with knowledge of Photography and N.H.I. Dispensing, for mixed country business. Apply, stating salary required (outdoors) and when disengaged, with references and photo, to 1 Gold Tops.

N. LONDON SUBURB.—Assistant, 22 to 25; qualified or unqualified; nice shop and neighbourhood; good middle-class trade; Dispensing, Counter, Photographic, and good Window-dresser; knowledge of Optics useful, but not essential; character must stand every investigation. 218/10, Office of this Paper.

OXFORD.—Junior Assistant wanted for large high-class business; very good experience may be gained. State references, experience, age, height, salary required, when disengaged, and send photo to A. H. Pearson, M.P.S., The Oxford Drug Co., Ltd., Family Chemists, Oxford.

PUTNEY.—An outdoor Assistant (male) of good appearance and reliable, for good-class business. Apply, giving full particulars, with photo, to Evans, Pharmacist.

RAMSGATE SEASON.—Unqualified Assistant, age about 30, required June 15 to September 30; quick, intelligent, and accustomed to good class trade; knowledge of photography; state references, wages required, outdoors, and enclose photo. Hughes, Chemist, Ramsgate.

SHERINGHAM.—Wanted, for about four months, young unqualified Assistant, good Dispenser, for General and Photographic business. Apply, giving full particulars, age, experience, references and salary required (outdoors), to J. B. Gooch (W. H. Burrell & Co.), High Street, Sheringham, Norfolk.

SOUTH COAST.—Young qualified Assistant, lady or gentleman for Dispensing, Counter and Stock; moderate hours; progressive; permanency. Write fully, stating experience, age, and salary required, to "Ltd.," 214/4, Office of this Paper.

SOUTH WALES.—Unqualified for mixed business; energetic; experienced Dispenser; quick Counter trade. Full particulars, experience, references, salary required, etc., 214/24, Office of this Paper.

STOCKPORT.—Wanted, immediately, smart Junior or Improver; must be a good Salesman and Window-dresser. State experience and salary expected. 216/29, Office of this Paper.

TORQUAY.—Energetic, unqualified Assistant for permanency; thorough knowledge Kodak dealing; quick Counter business; no Dispensing. Apply, with two good references, photo, and further particulars, Bathe's Drug Stores, 24 Fleet Street, Torquay.

WEST MIDLANDS.—Wanted, qualified Manager to take sole charge of small progressive business; must be experienced and thoroughly dependable; good prospects and succession might result; commencing wages, about £4 10s. State age and give references. 217/12, Office of this Paper.

LSOP & QUILLER require an Assistant, chiefly for Dispensing; they also require a Junior Assistant. Apply personally, or, if by letter, with full particulars, to "A. W.," 137 Sloane Street, S.W.1.

N Assistant (age 25-30) for one best provincial Houses; good appearance, address, references, Salesmanship indispensable; good prospect for thoroughly active, business man. State age, height, salary expected, full particulars of experience, enclose photo, returnable. 217/26, Office of this Paper.

ASSISTANT; unqualified; good Window-dresser; used to Photographic work (D. & P.), Dispensing and General Counter. Apply, with full particulars age, experience, salary required, giving references. Smallleys, Chemists, 6-8 Carr Street, Ipswich.

ASSISTANT.—Young qualified Assistant wanted for seaside resort, June to September. Apply "H. N.," c/o Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

ASSISTANT, unqualified, gentlemanly, for good-class Dispensing Business. State salary, experience and refs. Napier Gibb, Bourne End-on-Thames.

ASSISTANT; energetic; well up in practical Photographic work; reliable Dispenser and good Salesman. References, salary, and usual particulars in first letter, with photo (returnable). 217/20, Office of this Paper.

AT ONCE.—Season Assistant for good-class Retail, Dispensing and Photographic business. Full particulars, with photograph (to be returned) and salary required, to W. Hill, Pharmacist, Westgate-on-Sea, Kent.

COPPEN BROS., LTD., have a vacancy at their Richmond (Surrey) branch for a smart Junior Assistant with Dispensing experience; comfortable hours and no Sunday work. Apply, personally between 10-12, or by letter, to Coppen Bros., Ltd., 12½ Carey Street, Vincent Square, Westminster, S.W.1.

JUNIOR Assistant for high-class Dispensing and Retail business; must be good Dispenser, trustworthy, and energetic; salary, references, and photo (if possible) in first letter. D. R. Harris, 30 King Street, St. James', S.W.1.

JUNIOR; must be good Salesman and have had first-class dispensing experience, London, W.; state age, experience, salary required, and when disengaged. 216/40, Office of this Paper.

LADY Assistant, experienced, for good-class Retail business; knowledge of Photography, Dispensing, and Window-dressing. Apply, with full particulars of experience and salary required, to Holyoak, Chemist, Blethley, Bucks.

LADY Assistant, with good Dispensing and Retail experience, for good-class business, June 1; outdoors; hours 8.30-7, Wednesday 1, Saturday 8; short duty alternate Sundays. Give full particulars of age, experience, references, and salary required to Gilling, Chemist, Sunningdale, Ascot.

LEWIS & BURROWS have vacancies for some good Unqualified Assistants. Apply 146 Holborn Bars, E.C.

LOCUM.—Thompson & Capper, Ltd., require a Locum at their Huddersfield branch for the months of July and August; qualification not necessary. Please apply, stating salary required and enclose photograph if possible, to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

LOCUM.—Wanted, Locum, lady, for last two weeks in August; Chemist's business, Manchester. "M.P.S.," 9 Wilton Road, Chorlton-cum-Hardy, Manchester.

LOCUM, lady or gent., qualified, required from June 5 to 21 inclusive. Apply, stating full particulars, with copies of recent references, to Burdekin, Chemist, Firth Park, Sheffield.

LOCUM, qualified, for one month, commencing May 19; small town South Yorks. Give full particulars. "L.," 218/7, Office of this Paper.

LOCUM required, fortnight, July, lady, Minor, with knowledge Retail; state terms; London; non-resident. 218/28, Office of this Paper.

MANAGER, qualified, for branch; must be willing to adapt himself to store methods of trading; permanency. State age, salary required, and when disengaged to Bewells' Ltd., 19/21 Pitfield Street, N.1.

MASON & CO., LTD., have a vacancy at their Durham branch for a qualified Assistant; must be good Dispenser; knowledge of Photography, and used to a quick cash store trade; age 30 to 40; permanency. Apply by letter, enclosing references (copies only), which will not be returned, Mason & Co., Ltd., 80 King Street, South Shields.

QUALIFIED man or lady for mixed middle-class business; good all-round experience; capable taking charge; N.H.I. Dispensing. State age, height, etc., salary expected. T. L. Curtis, 38 Station Street, Swinton, Rotherham, Yorks.

QUALIFIED Manager required for Light Retail and Dispensing (N.H.I.) business; good opening for a man anxious to make progress; liberal interest in the profits offered. 214/37, Office of this Paper.

QUALIFIED Assistant to assist widow of Chemist; suit middle-aged man; easy hours arranged; must be quick in N.H.I. Dispensing. Perkins, Rose Cottage, Hull.

QUALIFIED.—Reliable, trustworthy man as Cover, with knowledge of surgical fitting, first-class Dispenser and Counterman; age, about 40 years; vacancy June. 217/22, Office of this Paper.

QUALIFIED Assistant wanted, capable of taking charge; must be good Salesman, Window Dresser, and knowledge of Photography. Apply, with full particulars of experience, stating age, etc., and salary required, to 217/11, Office of this Paper.

QUALIFIED Manager for small branch in S.W. London; young, energetic, good Window Dresser, and knowledge of Photography; salary offered, £4 per week, and half the profits above £100 per annum; state age, height, references, and previous experience, and when disengaged. 217/9, Office of this Paper.

QUALIFIED Dispenser required at once for West-End establishment; must be experienced, quick, and accurate worker. Give fullest particulars to 45/441, Office of this Paper.

UNQUALIFIED Assistant; single; must have had good Photographic experience; permanent and progressive berth. 214/370, Office of this Paper.

UNQUALIFIED Assistant (under 30) required for 14 days' holiday relief, starting May 24; must be used to quick cash business; further periods later for suitable man. Apply by letter, stating age, references, and salary expected, Barkers, 221 Upper Tooting Road, S.W.17.

WANTED qualified Assistant, well up in Dispensing and brisk Counter trade, and to assist generally in running a mixed business, South Wales industrial town. Fullest particulars, salary, etc., in first letter. 214/240, Office of this Paper.

WANTED, a gentlemanly Assistant (good references) for season's trade; experienced Dispenser, Counter and Photographic, and smart Window-dresser; state salary. Gale, Chemist, Selsey, Sussex.

WANTED, experienced Assistant, with knowledge of Photography. State full particulars, including references and salary. Hinton Lake, Exeter.

WANTED, Junior, reliable, for middle-class business; knowledge of Photography and Dispensing. Apply, 45/446, Office of this Paper.

WANTED, a capable Assistant for Hampstead Heath district; must be good Salesman and Window Dresser, and have knowledge of Photography. A progressive position for a suitable man who is expecting to qualify shortly. Apply, 45/443, Office of this Paper.

WANTED, qualified Assistant (male), single, for country town in Devon for Counter, Dispensing, and Stock; knowledge of Photography; no Sunday duty; permanency. State terms and references, with photo, in first letter. 217/27, Office of this Paper.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

LANCASHIRE Chemists' Sundries House requires experienced Travellers for part time, on liberal commission basis. Must have live connection in Lancashire, Yorkshire, North and South Wales, and Ireland. Every encouragement to really capable man. Side lines not objected to, provided goods do not clash. 216/38, Office of this Paper.

YORKS.—Young Man required to manage the Wholesale portion of a Chemist's Business, with a view to Purchase or Partnership after 3 months' trial; he would be required to travel 2 or 3 days weekly, calling on small shopkeepers and grocers in the country districts around; to a suitable man the Vendor offers very easy terms. Marsden, Lyndon, Mayfield Road, Bridlington.

YORKSHIRE.—Old-established Manufacturing Chemists and Surgical Dressing Manufacturers require a Representative; applicants must be prepared to live on the ground; good opportunity for a live man to develop existing connection. 45/444, Office of this Paper.

A NON-COMBINE Soap Firm desires to appoint a keen and efficient Salesman for the London area; preference will be given to one who knows the trade; a liberal salary and attractive commission to the right man. Write, in confidence, stating experience, etc., to R. F. White & Co., Ltd., 34 Victoria Street, S.W.

FOREWOMAN, experienced, required for Drugs, Sundries, Perfumes; must be a good organiser and strict disciplinarian; able to introduce and carry out new ideas. Apply to 45/442, Office of this Paper.

INVOICE and Billing Clerk (male) required in Wholesale Drug House; one with previous knowledge of the trade preferred. Letters only, giving full particulars, experience, salary required, etc., "Accountant," H. & T. Kirby & Co., Ltd., Newman House, Willesden Green, N.W.2.

LABORATORY Hand wanted by Lancashire house accustomed to make Extracts, Tinctures, Ointments, Concentrated Mixtures, etc.; knowledge of Tablet Making an advantage. Reply, stating age, experience, married or single, and wages required, to 213/260, Office of this Paper.

MANUFACTURERS of Surgical Apparatus and Instruments desire First-class Representatives, calling upon Hospitals, Infirmarys, Nursing Homes, etc.; must thoroughly understand the branch and have good connection. Reply, in writing, to G.R. & S.A. Co., 204/6 Gt. Portland Street, W.1.

OLD-ESTABLISHED firm has good-class side line for few Travellers with real established connections with Chemists; 5% commission; district representation and assistance in organising sales for good man. Send full particulars to 214/3, Office of this Paper.

OWING to ill-health, a vacancy will shortly occur for a young Managing Director with progressive ability and not afraid of work; capital required £3,000. Full details given to genuine enquirers, and correspondence will be dealt with in strict confidence. 212/38, Office of this Paper.

REPRESENTATIVE, with sound connection large Home Manufacturers of Chemicals, Soaps, Perfumes and Toilet Preparations, to market additional good selling line. Apply, with full particulars and copies of references, 45/438, Office of this Paper.

REPRESENTATIVE for London required by a well-known Firm of Manufacturing Chemists; must have had experience in selling Branded Medicinal and Toilet Preparations; also have a good connection amongst the best London and suburban Chemists. Apply by letter only, giving fullest particulars and salary required, to P.C.B., 68/13, Office of this Paper.

REPRESENTATIVE with connection amongst Chemists for Sundries. Only live and experienced men apply, please, with full particulars, to 45/440, Office of this Paper.

REPRESENTATIVES of high standing; with established connection among Public Institutions, required to represent Surgical Goods; no objection to other non-competitive representation. Reply 45/439, Office of this Paper.

REQUIRED, an experienced Clerk able to keep the books, control small staff, conduct correspondence, and eventually become Secretary to a progressive Lancashire house; the successful candidate must be prepared to invest £200 in 7 per cent. preference shares. Reply, stating age, experience, whether married, and salary required, to 213/26, Office of this Paper.

SHIPPING Clerk, junior, required in Colonial Merchant's office; one with some knowledge of Drug Trade preferred. Apply, stating age and salary required, "Austral," 45/447, Office of this Paper.

SOLE Agent for French manufacturers of Perfumery and Toilet Preparations of unique quality; demand already established; also a widely-known and advertised French Dentifrice requires Representatives on commission or part expenses to suitable man. Please state lines already carried and territory covered in Great Britain and Ireland. 217/56, Office of this Paper.

THE Manufacturers of an extensively advertised branded line require Representatives in the North-Eastern, North-Western, Eastern, Midland and Welsh Border Counties of England, North Wales and Ireland; only live salesmen with established connections apply, please; commission or salary only or salary and commission, as preferred. Particulars of experience and territory covered to Crusader Rubber Co., Ltd., 60/62, Bunhill Row, London, E.C.1.

TOILET and Perfumery Assistant wanted; must be well up in the manufacture of Shampoos, Brilliantines, etc. References, experience and salary expected to "Brill," 215/28, Office of this Paper.

TRAVELLERS, with sound connections only, wanted to introduce attractive side-lines on commission. 214/27, Office of this Paper.

TRAVELLERS required, to push new, well-advertised Toilet Specialty; excellent opportunity for men with sound connection; easily handled, non-competitive, attractive appearance; beautiful display material; exceptionally good terms to Retailer and Traveller. "C," 45 Craven House, Kingsway, W.C.

WANTED, for North of England, young qualified Chemist experienced in the manufacture of Galenicals, Concentrated Mixtures and Specialities for the Medical Profession. 216/7, Office of this Paper.

YOUNG man required to assist in the Home Invoice Department of a London Wholesale Druggists. Applicants who must have had experience in the pricing of chemist's orders, should write, stating full particulars of their experience, age and salary expected, to 44/421, Office of this Paper.

20 PER CENT. COMMISSION.—Excellent side line, well-known Specialty, sells 3d. and 6d.; every assistance by novel showmatter and liberal gift schemes; territories open, Lancashire, Midlands, Eastern Counties, South Coast. Give particulars of connection and lines carried, in confidence. 217/17, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

ALCUTTA.—Wanted, for old-established business in Calcutta, an Assistant with Minor qualification; single; first-class experience; age under 25; 4 years' agreement; salary, monthly, pces 400, 425, 450 and 475; passage paid out and home. ply, giving all particulars of experience, qualifications, etc., P.O.B. 67/10, Office of this Paper.

VERSEAS TRAVELLER REQUIRED.—Soap and Perfumery Manufacturers of repute require a first-class Traveller, with an established connection in the Near and Far East, for sale of their Specialities; applicants are requested to give (confidence) full particulars of previous experience and places represented; good knowledge of the Soap and Perfumery trade indispensable. 44/402, Office of this Paper.

SITUATIONS WANTED.**RETAIL.****[HOME.]**

for 18 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this office, and forwarded on payment of an additional charge of 1/-.

A.A.—MANAGER Pharmacist; experienced, progressive, reliable; good address; business man; age 38; S. Wales or London district preferred. "Opportunity," 7/15, Office of this Paper.

A.A.—UNQUALIFIED, 30, married desires permanency; Manager or Assistant; Dispensing, Counter, Photography and Window-dressing; first-class London and provincial experience; excellent references; Manchester or district preferred. Apply 216/39, Office of this Paper.

PHARMACEUTICAL Chemist, 26, requires responsible position; well able to manage and develop business; experience includes Family, Shipping, Wholesale, Brighton, S.E., Riviera; good knowledge French; interview readily; view succession possible. "Advertiser," 73 Thayers Farm Road, Kenningham, Kent.

ACTIVE, middle-aged; Locum or permanent; good Counterman and Dispenser; moderate terms; qualified. "Velox," Vancouver Road, Forest Hill, S.E.

S Locum or Manager; qualified Chemist; middle-aged; wide experience; highest references; at liberty June 10; Midlands preferred. "M.P.S.," 74 Ash Street, Burton-on-Trent.

S Locum; young lady, M.P.S.; disengaged; Hospital and Retail experience. "L. O.," 89a Elsham Road, Holland Park, Kensington, W.

S Senior; age 28; Display (Specialist), Salesmanship, Photography, including D. & P.; organisation and supervision; 16 years' experience all branches; London or suburbs preferred. "Progress," 25 Northanger Road, Streatham, S.W.16.

SSISTANT, Locum, or season engagement; experienced all round; obstainer; trustworthy; good references. "D.," 10 Grosvenor Place, Margate.

SSISTANT in Brighton, Eastbourne or neighbourhood; wide experience, Dispensing, Counter, Photography; unqualified; (on elderly side); moderate salary; permanency or part time. "E. U.," 34 Talbot Terrace, Lewes.

SSISTANT requires situation in a Chemist shop where there is a Photographic department; smart; French spoken; high-class professional photographic work, printing, developing, retouching, colouring, etc.; good Salesman; London or S. W. Write "M. W.," 91 Oakley Street, S.W.3.

SSISTANT, young, requires position; London; unqualified; City preferred, but not essential; good Counterman; used quick Insurance Dispensing; thorough knowledge Photography. 216/21, Office of this Paper.

SSISTANT; 4 years' apprenticeship; Counter, Dispensing, Photographic, Agricultural; age 20; disengaged June 1; London or South-Eastern Counties. 217/24, Office of this Paper.

T liberty.—Thoroughly capable Assistant as Locum or permanent; excellent references; unqualified. "F.," 39 Crayford Road, N.7.

HEMIST Assistant (unqualified) desires part-time post, Counter and Dispensing; London district only. "V. R.," Vartry Road, Stamford Hill, N.16.

DISENGAGED.—Experienced man; good references; accurate Dispenser; immediate engagement, season Assistant, relief holidays, permanent; would consider part-time, 12 o'clock daily, whole Saturday. "Reliable," 82 Campden Street, Kensington.

DISENGAGED.—Locum, permanency, or part-time; experienced male Pharmacist; moderate salary. "Chemist," 68 Grosvenor Road, Hanwell.

DISPENSER, qualified, experienced, wishes post with Doctor or in Hospital. Apply Miss Knox, 131 Alexandra Road, St. John's Wood.

DOCTOR'S Dispenser; experienced in all requirements; 4½ years in last situation; moderate salary. "Dispenser," 103 Knapp Road, Bow, E.3.

GOOD all-round man; 20 years' experience; unqualified; permanent or Locum. Singleton, 34 Paris Garden, Blackfriars Road, S.E.1.

JUNIOR Assistant desires post as Dispensing, Counterman, and Window-dresser; tall; age 19. Tuck, Queen's Road, Royston, Herts.

JUNIOR, 20, desires situation; 5 years' experience, Dispensing, Counter and Photo.; Lancashire preferred. White, Moss Bank, St. Helens.

JUNIOR, 22, desires herth to gain up-to-date knowledge, prices, etc.; has been out of business 18 months (satisfactory reasons); low salary accepted; good references; energetic; served 4 years' apprenticeship; Western Counties preferred. Browning, "Lawrence Weston," Henbury, Bristol.

LADY Dispenser, with thirteen years' wide experience as Dispenser and Bookkeeper, seeks appointment in London; has the Hall qualification and is well recommended. "C. L.," 44/450, Office of this Paper.

LADY Dispenser (Hall) requires post, Doctor, Hospital or Institution; over 2 years' experience; permanent or Locum; South of England preferred. Allanson, Sea View, 10, Marine Parade, Hastings, Sussex.

LADY Dispenser (Hall), 5 years' experience, seeks post, Doctor or Chemist; London preferred. "K. D.," 3 Upper Weet-hourne Terrace, W.2.

LADY (young) seeks situation; has had 5 years' experience at general Counter work. (Miss) Hampson, 259 Richmond Road, Twickenham, Middlesex.

LADY Dispenser; experienced; post Chemist or Doctor; locum or permanent; hook-keeping, etc. 38 Sinclair Road, W.14.

LADY Dispenser (Hall); locum or permanent; Doctor's and shop experience; doctor's preferred. West, 47 Vicarage Road, Leyton, London.

LOCUM, qualified, just out of business, now hooking engagements for Lancashire district. Hunter, 1 Hanover Street, Chorley, Lancs.

LOCUM or permanency; qualified; wide experience; recommended by R.P.U.; at liberty. "F.," 122 Edge Lane Drive, Liverpool.

LOCUM, qualified, 46, is open to accept good-class engagements. Elliott, 145 Oxford Street, W.1.

LOCUM.—Qualified lady, disengaged June 16 to July 5; thoroughly experienced; London preferred. Miss Will, 136a Portsdown Mansions, Maida Vale, W.9.

LOCUM, large experience, highest possible references, disengaged now to June 30; £5 5s. plus fare. "Pharmacist," 25 St. Aidans Road, East Dulwich, S.E.22.

LOCUM, 26; qualified; free May 22-31, June 16 to 28. Wilson, 109 Hauley Road, Finchbury Park, London.

LOCUM.—M. Smith, 96 Humberstone Drive, Leicester, permanent address; over 30 years' qualified experience; highest credentials; May 24 onwards. Don't miss Wemhley. Only few dates open.

LOCUM; thoroughly competent; dates free, June 5 to 21, July 28 to August 9. "Chemist," 165 Brecknock Road, N.19.

LOCUM.—Dates vacant, May 24 to June 14. Miss E. M. Wood, M.P.S., c/o Uriah Wood, Chemist, Arnold, Nottingham.

LONDON.—Assistant; 33; recommended by present employer; reliable, trustworthy, attentive and industrious; pleasant manners; well educated; West End, suburban and country experience. "T. B.," 24 Mead Plat, Willesden, N.W.

LOCUM; qualified; free May 19 to June 14; well recommended. Smith, 113 Brudenell Road, Upper Tooting, S.W.17.

LOCUM; qualified; competent, reliable; disengaged till August 25. "Pharmacist," 57 Brown Road, Walthamstow, Essex.

MANAGER; qualified; 35 years; married; temperate; 19 years' experience all branches. 210/27, Office of this Paper.

MANAGER; qualified; experienced in good-class business with Photography; highest testimonials; disengaged. "M.P.S.," 22 Ellison Road, Barnes, S.W.

MANAGER, qualified, fourteen years' London experience, capable, all-round man, desires position which calls for push and opportunities for mutual advantage. 218/3, Office of this Paper.

PHARMACIST-OPTICIAN, 25 years' all-round experience, highest references, as Locum in or near Birmingham, or permanency 3 or 4 days week; prepared to take financial interest in genuine concern. "Genuine," 212/37, Office of this Paper.

PHOTOGRAPHIC Dept. successful Manager and Organiser at liberty; experienced in all branches, including work-room; keen buyer, new and second-hand apparatus; good Salesman. Offers to "Optician," 217/18, Office of this Paper.

QUALIFIED lady Dispenser requires post with Doctor or Hospital; would do Locum; previous experience. O. Berry, Hazelbank, Boxmoor.

QUALIFIED.—M.P.S., F.S.M.C., desirous position as Manager; experienced Refractionist, S. and O. methods; disengaged July. 214/22, Office of this Paper.

QUALIFIED, 23; tall; temporary or permanent; London; first-class Dispensing, Counter, Optical and Photographic experience; excellent references. "T.," 26 Beckwith Road, Herne Hill, S.E.

QUALIFIED Chemist, 46, highly recommended, having had 22 years' control, desires responsible position as Manager where there is scope for energy and hard work. Particulars, Elliott, 145 Oxford Street, W.1.

QUALIFIED; wide Continental and London experience; speaking French fluently. Locum or permanency; about July 1; South preferred; age 45. P. J. Leek, Brookwood, Leigh, Lancs.

QUALIFIED, 36, married, disengaged, requires post as Senior or Manager; experienced Dispenser, Window-dresser and Salesman; thoroughly reliable; well recommended. 216/22, Office of this Paper.

QUALIFIED, 28, desires change as Manager or Senior; North of England preferred; ten years' experience in Dispensing and General Counter work; abstainer. 215/33, Office of this Paper.

RELIABLE Locum; qualified; elderly; well recommended; terms moderate; for vacant dates. I. Allen, 17 Prince's Road, S.W.

UNQUALIFIED; good experience; reliable and capable; good Window-dressing and Photography; excellent references; Home Counties. Write 214/14, Office of this Paper.

YOUNG lady, qualified, desires progressive experience; London preferred. W. Richards, 8 Sundridge Parade, Bromley, Kent.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

DO YOU WANT BETTER RESULTS?

ADVERTISING to-day costs so much that every square inch must be fully productive. Chemist, with exceptional knowledge and original ideas of advertising in all branches, desires position. 68/100, Office of this Paper.

YOUNG lady, experienced in Chemical Trade and General Merchant's Office, desires re-engagement; able to take charge; excellent references. "J. H.," 38 Agate Road, Hammer-smith, W.

ADVERTISER, keen, energetic, 16 years with one of the largest proprietary houses, is shortly opening Office in Birmingham, knows every Chemist, Druggist, Drysalter, etc., in Midland Counties, and desires to represent one first-class firm in this territory; small salary; commission basis; highest references. 217/14, Office of this Paper.

AS Representative, proved Salesman with fine connection for Toilets, Soaps, Perfumery, Pharmaceuticals, and Proprietary Articles; has the entree to high-class Chemists, Stores, and Perfumiers. 207/28, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

ASSISTANT Chemist, 23; 3 years' technical training, London University; B.Sc. (Chemistry); willing to take any post in keeping with qualifications. M.L. 5673/23, Office of this Paper.

AT YOUR SERVICE.—Qualified Chemist, with highest references from leading firm of Wholesale and Manufacturing Chemists, seeks position; experienced in factory and departmental control on modern lines; also production of Specialties and Packed Lines. P.C.B., 68/10, Office of this Paper.

CHEMIST, good London connection, requires berth as Traveller for Wholesale Chemist. "Alka," 214/33, Office of this Paper.

CHEMIST, good connection Chemists, Professional Men and Institutions, desires side-line on part-expenses and salary or commission basis. Please apply "Voyageur," 214/35, Office of this Paper.

DEVON AND CORNWALL.—Traveller, qualified Chemist, experienced Salesman, with old-standing connection, mainly with Chemists, wishes to represent two or three houses upon commission and part expenses, or one house upon salary, commission and expenses; excellent record and references. 217/19, Office of this Paper.

DRUG Traveller, 38, 14 years' all-round experience, good live connection Chemists and Doctors, open for re-engagement. 216/25, Office of this Paper.

EX-OFFICER, A.I.C., 43; married; educated Public School; good knowledge French; one year's experience Assistant to Analytical Chemist, eight years' Manufacturing Chemist; willing to take any post. M.L. 5977/22, Office of this Paper.

EX-OFFICER, 30, single, educated Public School, 3 years' University, Intermediate Physics and Chemistry, some knowledge French, 4 years' Laboratory experience, good knowledge Electrical Engineering, desires post, preferably in Chemical Works or Oil Refinery. M.L. 34284, Office of this Paper.

EX-OFFICER, 26, married, Inter B.Sc. (Chemistry), some experience in Oils and Sewage, desires post as Assistant Chemist, Commercial Laboratory. M.L. 12054, Office of this Paper.

INVOICE Clerk or Traveller; 13 years' experience former, 8 years' latter; age 37; any post accepted. P.C.B. 67/24, Office of this Paper.

MAJOR Chemist, 25, desires position with Manufacturing Wholesale House in Analytical Laboratory or Works; good references. J. T. Marriott, 9 Woburn Street, Amptill, Beds.

MAN, 38, disengaged, 12 years' Wholesale experience London, seeks position; Counter, Warehouse or Despatch. P.C.B., 68/5, Office of this Paper.

MODERN worker, Supervisor, experienced all branches, wants post Provincial Wholesale, Laboratory or Warehouse; manufacturing knowledge and formulae of latest Toilet lines, Galenicals, etc.; home and export. 214/11, Office of this Paper.

OIL Chemist, 28, single, M.C., B.Sc. (Hons. Chemistry), A.R.C.Sc., A.I.C.; good technical French; experienced Laboratory Chemist, Oilfields; 12 months' experience Research work, Oil Technology Department; willing to take any post, in keeping with qualifications. M.L. 44162, Office of this Paper.

PAPER Chemist, 24; 3 years' war service, M.O.; B.Sc. Honours, Chemistry A.R.C.S., (Chemistry) A.I.C.; some knowledge French; 12 months' experience manufacture and application of Industrial and Laboratory Filter Paper; any post. M.L. 70954, Office of this Paper.

P.H.C. desires position in Laboratories of Wholesale House. Chas. Carr, 4 Front Street, Bedlington, Northumberland.

QUALIFIED, 24, 7 years with Wholesale and Manufacturing Chemist (Doctors' business); desires progressive position, anywhere. References on application to "M.P.S.," 6 Gilwood Road, Bolton.

REPRESENTATIVE, with finest London connection and experienced all branches, invites correspondence from progressive house; age 38; abstainer; married. P.C.B. 67/37, Office of this paper.

REPRESENTATIVE, with good connection Chemists and Surgical Instrument Makers, covering whole country twice a year, desires one or two good side lines (non-competitive with surgical) on commission basis, or would represent another house; commission and part expenses. Replies 217/34, Office of this paper.

REPRESENTATIVE, 28, good appearance and address, desires to represent Wholesale House; first-class references. 5/35, Office of this Paper.

RESEARCH or Plant Chemist, 24, B.Sc.; good knowledge French and German; bad experience in Chemical Company. L. 26728, Office of this Paper.

RESEARCH Works or Analytical, 24, B.Sc.; 2 years' war service; Chemistry; good knowledge French and German; experienced at Laboratory assistant (bacteriological). L. 14500, Office of this Paper.

SALES Manager or Senior Traveller seeks appointment; 15 years' connection Chemists, Stores, Grocers; London, Birmingham, Manchester, Liverpool; well recommended by leading firms. P.C.B., 68/8, Office of this Paper.

TRAVELLER; 17 years' travelling experience and connection whole of England and Scotland Wholesale Chemists, Surgical and Druggists' Sundriesmen. P.C.B., 68/4, Office of this paper.

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SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 52 Old Street, London, E.C.2.

FOR quick Sale, Gardner Sifter and Mixer; Cast Iron and Copper Pans, jacketted; End and Edge Runner, Granite Mills, Jackson Filling Machine. Write 45/445, Office of this paper.

FOR Sale, 9 gross Blue Cardboard Outers, lift off lids, 6½ x 6½ x 1 in.; 10 gross Round Cardboard Containers with tin bottoms and perforated tin slip lids, 3 x 5½; 5 gross ditto, 4 x 4 in.; 5 gross ditto, 1½ x 3½ in.; 20 gross ditto, 1½ x 2½. A reasonable offer refused; room badly wanted. "U. V. A.," 5 Clarendon Grove, N.W.1.

MAHOGANY Wall Cases, 10 ft. 6 long, 9 ft. high, 6 ft. long, 7 ft. 6 high, 12 in. deep; 4 Wood Shelves, 10 ft. long, 9 in. high; Dispensing Screen, 6 ft. long; Plate-glass salesman, 5 ft. 10 in. high, 2 ft. x 1 ft. 6 in., 3 P.G. shelves; mahogany Drug Fitting, 12 ft. long, 8 ft. 6 in. high, 38 drawers, glass labels and glass knobs; shop soiled; low prices. **GEORGE COOK**, The Working Shopfitter, 29 Macclesfield Street, City Road, London.

DOZEN Haemacytometers, Thoma, complete; 15s. each. Apply **ROBINSON, NELSON & CO.**, 325 City Road, Manchester.

LIMITED COMPANY FORMATION.

Included in my free quotation for any size private limited company are books, seal, share certificates, etc.; no extras; 185 Chemist companies formed already. A. Bd. Slack, 15 Christchurch Avenue, West Didsbury, Manchester.

Pharmaceutical Council Election, 1924.

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FOR SALE, 14 lbs. Metol (Merck.); whole or part. What offers? 216/4, Office of this Paper.

OVERSTOCKED.—About 10,000 2 gr. S/c. Cascara Tablets, guaranteed 3-year-old bark, 3s. 1,000; coating slightly coloured. 214/7, Office of this Paper.

SMALL OPTICAL TRIAL CASE, polished mahogany new condition, 65 lenses, spherometer, £7 10s. Clements, 90 Parade, Sutton Coldfield.

TWELVE-GALLON STOUT COPPER STILL, with steam coil; no condenser, unused, £8. 7-gallon ditto, for gas heating, with two Davis Condensers, £4. Rose, Chemists, Westgate, Dewsbury.

OPTICAL TRIAL CASE, mahogany, containing 30 pairs each plus and minus spheres, 18 pairs each, plus and minus cylinders, 12 prisms, 22 discs, Maddol rod, etc., lens holder and 3-cell trial frame; lenses mounted rolled gold and nickel; perfect condition; price £14. "Astig," 217/6, Office of this Paper.

WANTED.

MATERIA MEDICA COLLECTION, complete, second-hand, for Minor. Davies, Devonshire Street, Keighley.

PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller, 41 Voltaire Road, Clapham.

MATERIA MEDICA SPECIMENS wanted for "Minor"; complete; good condition. 215/1, Office of this Paper.

CHEMIST & DRUGGIST DIARY for 1916. State price. Stevenson, 36 Fulford Street, Old Trafford, Manchester.

"B.P." 1914, and any Books helpful for Examination, second-hand. State price. "Assistant," 1 Frankfort Place, Dartry, Dublin.

KODAK ENLARGING MACHINE, also Mixer and Sifter for powders. Please state full particulars and price to H. Holt, 9 Kilner Deyne Terrace, Rochdale.

FRESH BELLADONNA.—Wanted (in June), several tons of fresh belladonna, wild preferred; state probable quantities available and lowest price. 44/418, Office of this Paper.

IN GOOD CONDITION, Second-hand Colton (No. 4 or 5) Tablet Machine, or Wilkinson Tablet Machine; either capable of taking a 1 inch punch. Apply, by letter, 45/448, Office of this Paper.

144.—SET of complete mahogany Shop Fittings, 7 ft. hand-some Dispensing Screen, 7 ft. Wall Case, 12 ft. counter with cases in front, plate-glass Counter Case, two nests Counter Drawers, 12 ft. Drug Fitting, Perfume Case and desk, all-glass Counter; can easily be adapted. **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, London, E.C.1.

Pharmaceutical Council Election, 1924

A joint appeal by the retiring Members of Council to the Members of the Society

Dear Sir (Madam),

The undersigned Members of Council, who are retiring by rotation this year and who offer themselves for re-election, have decided to issue a joint appeal to the Members of the Society. Under many circumstances any such joint appeal would not have been possible, but at the present time there are no big controversial issues before the electors, and the undersigned Members of Council are entirely in accord with the policy of the Council during the last three years.

We are proud to record the fact that the Pharmaceutical Society to-day is in a more assured position in the confidence of its Members than probably at any other period in its history. Its accumulated funds have reached a higher amount than ever before, its Membership stands at high-water mark at the present moment, and we are satisfied that the prestige of the Society is more pronounced in the various Government Departments with which the Society has to deal than at any other period of the Society's activities.

Education

We are confident that the policy of the Council is right in that during the last three years it has endeavoured to raise the standard of pharmaceutical education in keeping with the advance in general educational matters in Great Britain. We think that the time is ripe for the Council to take some steps to regulate the influx of students into the pharmaceutical calling, and endeavour by some form of systematic pupilage to so regulate the training of our pupils that they can avail themselves of the facilities that are afforded in our local areas for acquiring a training and knowledge in the scientific subjects of Part 1 of the Society's Examinations during their apprenticeship.

Branch Organisation

We are glad to affirm that the policy of the Council in regard to the Branch Organisation Scheme has been fully justified, and we are satisfied that, by means of the Branches, the individual Members of the Society scattered in all parts of Great Britain have been brought into very close and direct touch with the Headquarters of the Society. In this way the ranks of Pharmacy have been consolidated.

Scientific Research

We cordially approve of the action of the Council in setting up its Science Committee. Through the agency of this Committee, acting under the aegis of the Society, pharmaceutical research and the necessary scientific investigations will be carried out systematically and continuously. The data thus collected will be of the greatest use in connection with future editions of the British Pharmaceutical Codex. It will also be of great advantage in many directions to the Society and its individual Members in practice, and will also at the same time be work that will be probably of much usefulness in the interests of the State as well.

We hope that our record of service on the Council during the last three years has been such as will justify us in asking for a further renewal of the support and confidence of the Members of the Society in England, Scotland and Wales.

We beg to remain,

Your obedient Servants,
MARGARET E. BUCHANAN,
T. GUTHRIE,
J. JACK,
J. KEALL,
E. T. NEATHERCOAT,
F. PILKINGTON SARGEANT,
H. WOLFF.

6th May, 1924.

Wembley and YOU!

THIS year will be a travelling year, not only in this country but all over the world; thousands and thousands of people will be travelling to visit the great exhibition at Wembley, at which will be displayed the beauties and wonders of the British Empire.

You, who read this, no doubt intend to spend a week there, so do we, and so do hundreds of thousands more. We are not however dealing with the exhibition, wonderful though it is, but with the stimulus to trade it will undoubtedly create.

Movement in anything signifies life and progress, the faster money circulates the better it is for trade. The spirit of the exhibition, the life, the bustle, the mild excitement and all-round cheerfulness want to circulate and penetrate to the corners of the earth. Take it up individually, take it up collectively, think now is the time to end the slump and aftermath of the war, now is the time to get after the business—it's there, the world is crying out for goods of all kinds, buyers have been holding off, but this year the greatest effort in history is being made to bring buyers and goods together.

The result is bound to mean more business, more orders booked, more work for the masses, an increased spending power and more trade again for the retail business men.

A few cities and towns are talking about shopping weeks, an excellent

idea, but *all* in business must get enthusiastic about it. Nothing like enthusiasm, it burns, it takes all before it but it is not destructive, indeed very much the reverse if the constructive mind is behind the enthusiasm.

The great endeavour of this little article is to bring home the fact that it is the individual thoughtful effort that is required in order to make a national success of a very great enterprise; the opportunity is offered *you* to increase *your* business, it is offered us. We are taking it, we hope you will.

Adopt the motto "No stagnation," forget foreign exchanges, forget slumps, forget strikes and talk of unrest. If one window display does not bring the returns, try another. Let this spirit of cheerfulness and quiet optimism pervade your premises; the long winter is over, let the summer sunshine take its place.

We as a firm take this medicine in very regular doses, we find it successful—we are just building a big extension to our premises—we want you to be doing the same. We can supply you with the goods to achieve this success, our own extension and growth is proof that we are now doing so; the real point is, cannot you take more advantage of opportunities provided by the great exhibition to provide work in abundance for the masses, and of us in supplying a particular service and goods to meet a phase of the requirements of the great general public—for example, *Elfrida*.



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